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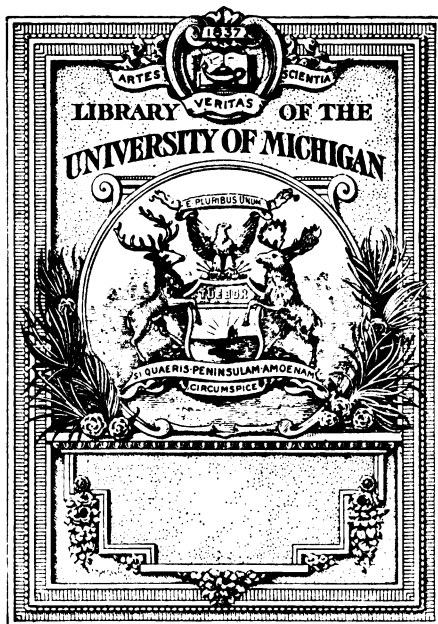
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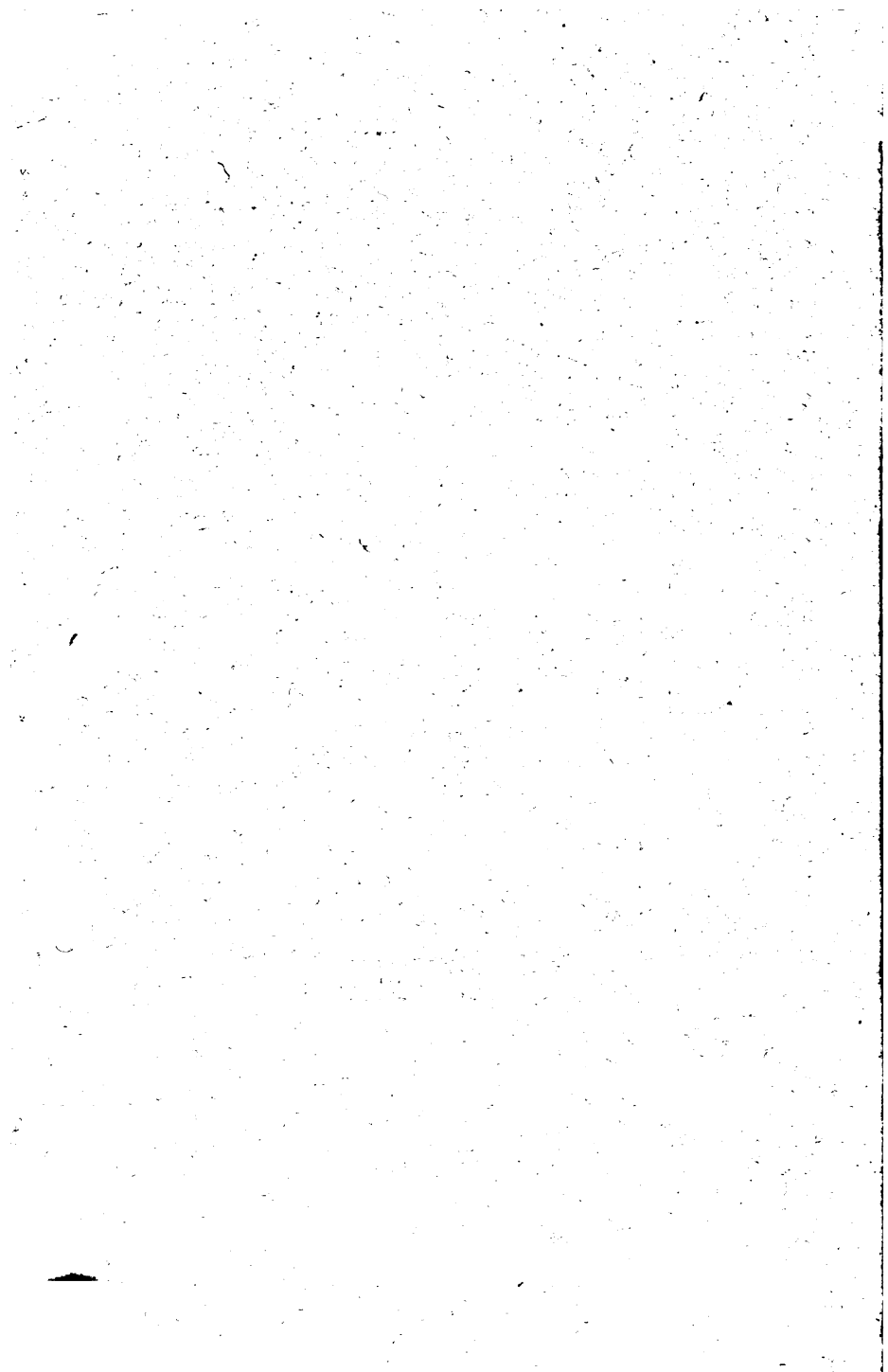
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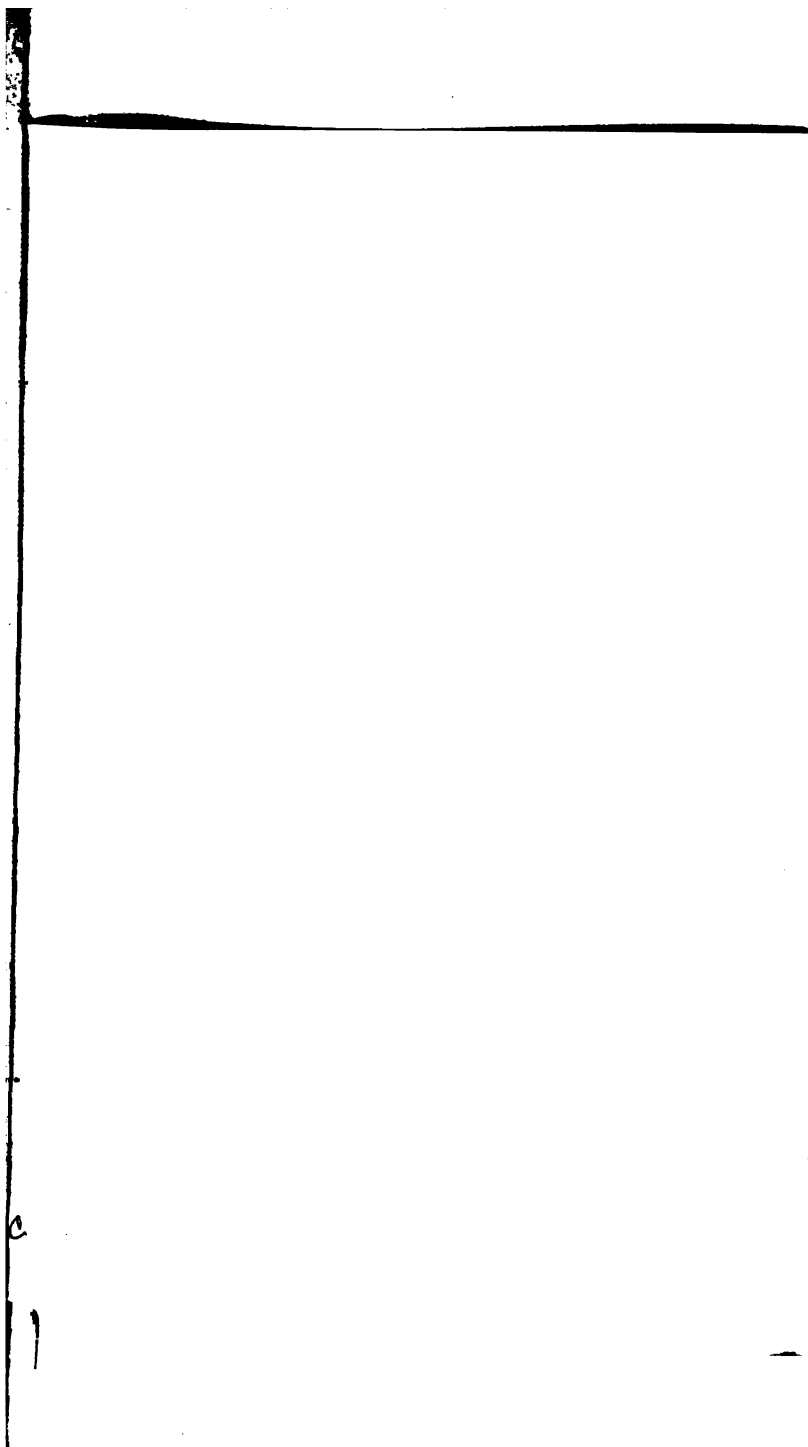
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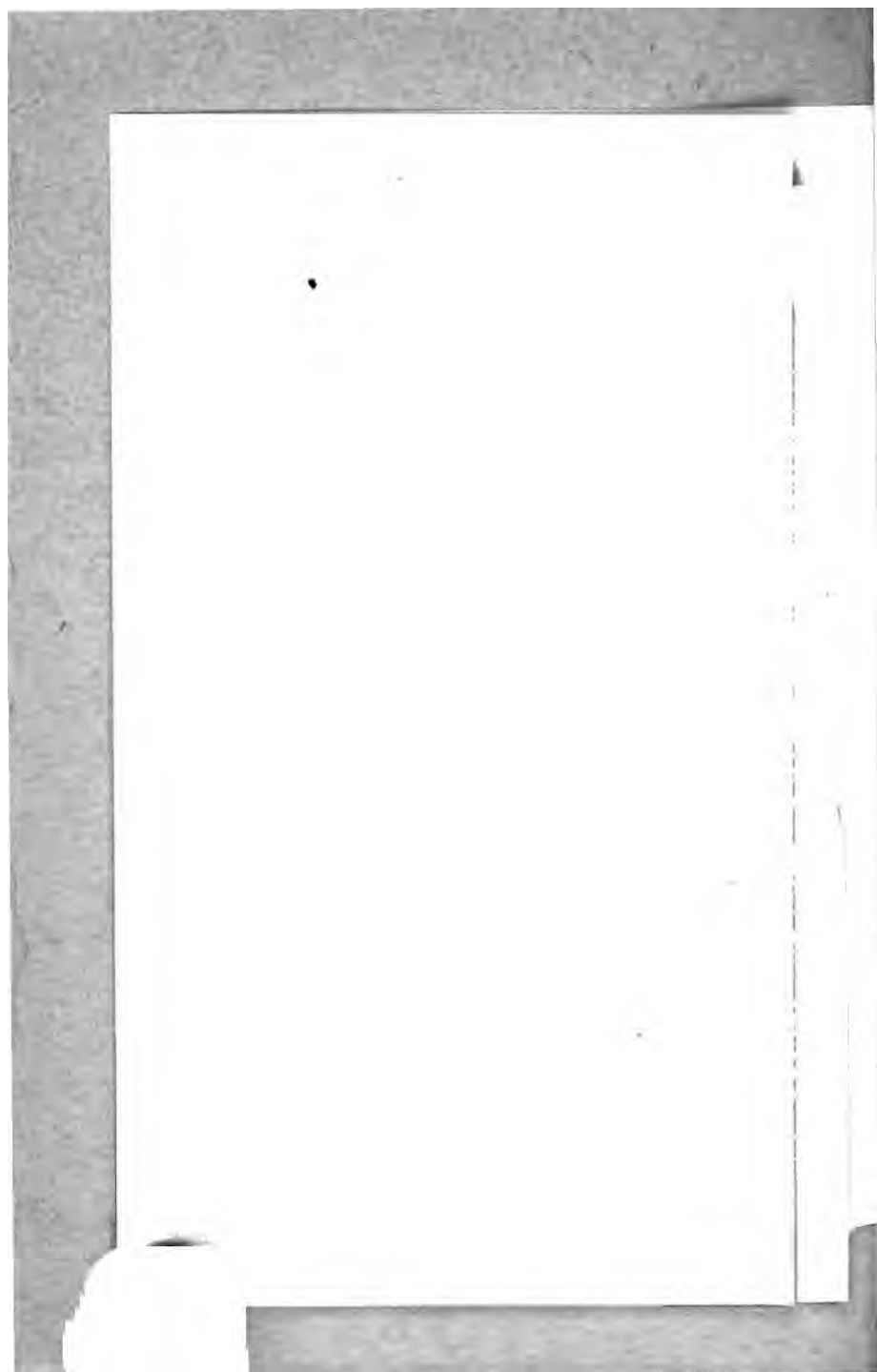
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CATALOGUE
OF
DARTMOUTH COLLEGE
TOGETHER WITH THE
MEDICAL SCHOOL
AND THE
THAYER SCHOOL OF CIVIL ENGINEERING
FOR THE YEAR
1898-99

HANOVER, N. H.
PRINTED FOR THE COLLEGE
1898

University Press
JOHN WILSON AND SON, CAMBRIDGE, U.S. A.

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COLLEGE CALENDAR

DARTMOUTH COLLEGE

1898

September 12, 13, 14 Examinations for Admission — Monday to Wednesday.

September 15 . . . Academic year began — Thursday morning.

October 6 . . . Athletic Field-day; a holiday.

November 24 . . . Thanksgiving Day; a holiday.

Recess from December 21, 10.30 A.M., to January 4, inclusive.

1899

January 22 . . . Day of Prayer for Colleges.

Jan'y 26 to Feb'y 4 . First Semester Examinations.

February 22 . . . Washington's Birthday; a holiday.

March 8 . . . The Smith and "Class of 1866" Prize Speaking — 8 P.M.

Recess from April 5, 10 A.M., to April 19, inclusive.

June 15 to June 24 . Second Semester Examinations.

June 22, 23, 24 . . Examinations for Admission.

June 24 . . . The Rollins Prize Speaking — Saturday, 8 P.M.

June 25 . . . Baccalaureate Discourse — Sunday, 10.30 A.M.
Address before the Y. M. C. A. — Sunday, 8 P.M.

June 26 . . . Class Day Exercises — Monday, 2.30 P.M.

Promenade Concert in College Yard — 10 P.M.

June 27 . . . Annual Meeting of the Phi Beta Kappa Society — Tuesday, 8.30 A.M.

Oration before the Phi Beta Kappa Society — 10.30 A.M.

Annual Meeting of Alumni Association — 3 P.M.

Greek Letter Society Reunions — 5 P.M.

June 28 . . . COMMENCEMENT — Last Wednesday in June.

Summer Vacation of Eleven Weeks.

1899

September 11, 12, 13 Examinations for Admission — Monday to Wednesday.

September 14 . . . Academic year begins — Thursday morning.

December 20 . . . Recess of two weeks begins.

MEDICAL SCHOOL

1898

July 13 Medical Lectures began.

September 15 . . . First Year Course began.

Recess from December 21, 10.30 A.M., to January 4, inclusive.

1899

February 27, 28 . . . Examinations — Monday and Tuesday.

February 28 . . . Anniversary Graduating Exercises — Tuesday.

Annual Vacation of Nineteen Weeks.

July 13 Medical Lectures begin.

September 14 . . . First Year Course begins.

THAYER SCHOOL OF CIVIL ENGINEERING

1898

August 2 Year of thirty-eight weeks for second class began.

September 15 . . . Year of thirty-two weeks for first class began.

December 21 . . . Recess of eight days begins.

1899

May 2 Year for first class ends.

Summer vacation for second class begins.

CHARTER

THE CHARTER OF DARTMOUTH COLLEGE

GEORGE THE THIRD by the grace of GOD of Great Britain
France and Ireland KING Defender of the Faith, and so
forth. —

To all to whom these Presents shall come.

GREETING.

WHEREAS it hath been represented to our Trusty and well beloved JOHN WENTWORTH Esquire Governor and Commander in Chief in and over our Province of NEW HAMPSHIRE in New England in AMERICA, that the Reverend ELEAZER WHELOCK of Lebanon in the Colony of Connecticut in New England aforesaid, now Doctor in Divinity, did on or about the year of our Lord one thousand seven hundred and Fifty four, at his own expence, on his own Estate and Plantation set on foot an INDIAN Charity School and for several years through the assistance of well-disposed Persons in America, cloathed, maintained and educated a number of the Children of the Indian Natives, with a view to their carrying the Gospel in their own Language and spreading the knowledge of the great Redeemer among their Savage Tribes, and hath actually employ'd a number of them as Missionaries and Schoolmasters in the Wilderness for that purpose : and by the blessing of GOD upon the endeavours of said Wheelock the design became reputable among the Indians insomuch that a larger number desired the Education of their Children in said School ; and were also disposed to receive Missionaries and Schoolmasters in the Wilderness more than could be supported by the charitable Contributions in these American Colonies. — WHEREUPON the said Eleazer Wheelock thought it expedient that endeavours should be used to raise Contributions from well disposed Persons in England for the carrying on and extending said undertaking, And for that purpose said Eleazer Wheelock requested the Reverend Nathaniel

Whitaker now Doctor in Divinity to go over to England for that purpose, and sent over with him the Reverend Samson Occom an Indian Minister who had been educated by the said Wheelock, And to enable the said Whitaker to the more successful performance of said Work on which he was sent, said Wheelock gave him a full Power of Attorney by which said Whitaker solicited those worthy & generous Contributors to the Charity viz^t. The Right Honorable WILLIAM Earl of DARTMOUTH, The Honorable Sir SIDNEY STAFFORD SMYTHE Knight, one of the Barons of his Majesty's Court of Exchequer, JOHN THORNTON of Clapham in the County of Surrey Esquire, SAMUEL ROFFEY of Lincoln's Inn fields in the County of Middlesex Esquire, CHARLES HARDY of the parish of Saint Mary-le-bonne in said County Esquire, DANIEL WEST of Christ's church Spitalfields in the County aforesaid Esquire, SAMUEL SAVAGE of the same place Gentleman, JOSIAH ROBERTS of the parish of Saint Edmund the King Lombard Street, London Gentleman, and ROBERT KEEN of the parish of Saint Botolph Aldgate London, Gentleman, to receive the several Sums of Money which should be contributed, and to be Trustees for the Contributors to such Charity, which they cheerfully agreed to. Whereupon the said Whitaker did by virtue of said Power of Attorney constitute and appoint the said Earl of Dartmouth Sir Sydney Stafford Smythe, John Thornton, Samuel Roffey, Charles Hardy & Daniel West Esquires, and Samuel Savage Josiah Roberts and Robert Keen Gentlemen to be Trustees of the Money which had then been contributed, and which should by his means be contributed for said Purpose; which Trust they have accepted as by their engrossed Declaration of the same under their Hands and Seals well executed fully appears, and the same has also been ratified by a deed of Trust well executed by the said Wheelock; — And the said Wheelock further represents that he has by power of Attorney for many weighty reasons, given full Power to the said Trustees to fix upon and determine the place for said School most subservient to the great end in view, and to enable them understandingly to give the preference, the said Wheelock has laid before the said Trustees the several Offers which have been generously made in the several Governments in America to encourage and invite the settlement of said School among them for their own private emolument, and the increase of Learning in their respective places as well as for the furtherance of the general design in view. And whereas a large number of the Proprietors of Lands in the western part of this our Province of New Hampshire,

animated & excited thereto by the generous example of his Excellency their Governor, and by the liberal Contributions of many Noblemen and Gentlemen in England; and especially by the consideration that such a situation would be as convenient as any for carrying on the great design among the Indians; and also considering that without the least impediment to the said design the same School may be enlarged & improved to promote Learning among the English, & be a means to supply a great number of Churches & Congregations which are likely soon to be formed in that new Country with a learned & orthodox ministry; they the said Proprietors have promised large Tracts of Land for the uses aforesaid, provided the School shall be settled in the western part of our said Province. And they the said Right Honorable, Honorable and worthy Trustees before mentioned having maturely consider'd the reasons & arguments in favour of the several Places proposed, have given the preference to the western part of our said Province lying on Connecticut River, as a situation most convenient for said School; And the said Wheelock has further represented a necessity of a legal Incorporation in order to the safety and well being of said Seminary, and its being capable of the tenure & disposal of Lands & bequests for the use of the same. And the said Wheelock has also represented that for many weighty reasons it will be expedient at least in the infancy of said Institution or 'till it can be accommodated in that new Country and he & his Friends be able to remove and settle by and round about it, that the Gentlemen whom he has already nominated in his last Will (which he has transmitted to the aforesaid Gentlemen of the Trust in England) to be Trustees in America should be of the Corporation now proposed & also as there are already large Collections for said School in the hands of the aforesaid Gentlemen of the Trust in England and all reason to believe from their singular wisdom, piety and zeal to promote the Redeemers cause (which has already procured for them the utmost confidence of the Kingdom) we may expect they will appoint Successors in time to come who will be men of the same Spirit whereby great good may & will accrue many ways to the institution & much be done by their example and influence to encourage and facilitate the whole design in view; for which reason said Wheelock desires that the Trustees aforesaid may be vested with all that power therein which can consist with their distance from the same KNOW YE THEREFORE, that We considering the Premises and being willing to encourage the laudable & charitable design of spreading Christian

Knowledge among the Savages of our American Wilderness and also that the best means of Education be established in our Province of New Hampshire for the benefit of said Province, DO of our special grace certain knowledge and mere motion by and with the advice of our Council for said Province by these Presents Will, ordain, grant & constitute that there be a College erected in our said Province of New Hampshire by the name of DARTMOUTH COLLEGE for the education & instruction of Youth of the Indian Tribes in this Land in reading, writing & all parts of Learning which shall appear necessary and expedient for civilizing & christianizing Children of Pagans as well as in all liberal Arts and Sciences; and also of English Youth and any others, and the Trustees of said College may and shall be one body corporate and politick in deed action & name, and shall be called, named & distinguish'd by the Name of the TRUSTEES of DARTMOUTH COLLEGE And further we have willed given granted constituted and ordained and by this our present Charter of our special grace certain knowledge & mere motion with the advice aforesaid DO for us our heirs and successors forever will give grant constitute & ordain that there shall be in the said DARTMOUTH COLLEGE from henceforth and forever a body politick consisting of Trustees of said Dartmouth College And for the more full & perfect erection of said Corporation & body politick consisting of Trustees of Dartmouth College We of our special grace certain knowledge & mere motion DO by these Presents for us our Heirs & Successors make ordain constitute and appoint our trusty and well beloved JOHN WENTWORTH, Esquire Governor of our said Province and the GOVERNOR of our said Province of New Hampshire for the time being and our Trusty and well beloved THEODORE ATKINSON Esquire now President of our Council of our said Province GEORGE JAFFREY & DANIEL PIERCE Esquires both of our said Council and PETER GILMAN Esquire now Speaker of our House of Representatives in said Province & WILLIAM PITKIN, Esquire one of the Assistants of our Colony of Connecticut & our said trusty and well beloved ELEAZER WHELOCK of Lebanon Doctor in Divinity, BENJAMIN POMROY of Hebron JAMES LOCKWOOD of Weathersfield TIMOTHY PITKIN & JOHN SMALLEY of Farmington & WILLIAM PATTEN of Hartford all of our said Colony of Connecticut Ministers of the Gospel. (the whole number of said Trustees consisting and hereafter forever to consist of TWELVE & no more) to be Trustees of said Dartmouth College in this our Province of New Hampshire And we do further of our special grace certain knowl-

edge and mere motion for us our Heirs and Successors will give grant and appoint that the said Trustees & their Successors shall forever hereafter be in deed act & name, a body corporate & politick & that they the said body corporate & politick shall be known & distinguished in all deeds grants bargains sales writings evidences or otherwise howsoever, & in all Courts forever hereafter plead and be impleaded by the Name of the Trustees of Dartmouth College and that the said Corporation by the name aforesaid shall be able and in law capable for the use of said Dartmouth College to have get acquire purchase receive hold possess and enjoy tenements hereditaments jurisdictions and franchises for themselves and their Successors in fee simple or otherwise howsoever & to purchase receive or build any House or Houses or any other buildings as they shall think needful & convenient for the use of said Dartmouth College and in such Town in the western part of our said Province of New Hampshire as shall by said Trustees or the major part of them be agreed on their said agreement to be evidenced by an instrument in writing under their hands ascertaining the same And also to receive and dispose of any Lands goods chattels and other things of what nature soever for the use aforesaid And also to have accept and receive any rents profits annuities gifts legacies donations or bequests of any kind whatsoever for the use aforesaid so nevertheless that the yearly value of the Premises do not exceed the Sum of six thousand pounds Sterling¹ and therewith or otherwise to support and pay as the said Trustees or the major part of such of them as are regularly convened for that purpose shall agree the President Tutors and other Officers & Ministers of said Dartmouth College & also to pay all such Missionaries and Schoolmasters as shall be authorized appointed & employed by them for civilizing & christianizing & instructing the Indian Natives of this Land their several allowances & also their respective annual Salaries or allowances & all such necessary & contingent charges as from time to time shall arise & accrue relating to the said Dartmouth College And also to bargain sell let or assign Lands tenements or hereditaments goods, or chattels & all other things whatsoever by the name aforesaid in as full and ample a manner to all intents and purposes as a natural person or other body politick or corporate is able to do by the laws of our realm of Great Britain or of said province of New Hampshire And further of our special grace certain knowledge & mere motion to the intent that our said Corporation & body politick

¹ Subsequently amended so as to remove all limitations.

may answer the end of their erection & Constitution, & may have perpetual succession & continuance forever We do for us our heirs and Successors will give & grant unto the Trustees of Dartmouth College & to their Successors forever that there shall be once a year & every year a meeting of said Trustees held at said Dartmouth College at such time as by said Trustees or the major part of them at any legal meeting of said Trustees shall be agreed on the first meeting to be called by the said Eleazer Wheelock as soon as conveniently may be within one year next after the enrollment of these our Letters Patent at such time & place as he shall judge proper And the said Trustees or the major part of any seven or more of them shall then determine on the time for holding the annual Meeting aforesaid which may be alter'd as they shall hereafter find most convenient And we further order and direct that the said Eleazer Wheelock shall notify the time for holding said first meeting to be called as aforesaid by sending a letter to each of said Trustees & causing an advertizement thereof to be printed in the New Hampshire Gazette & in some publick News Paper printed in the Colony of Connecticut But in case of the Death or incapacity of the said Wheelock then such meeting to be notified in manner aforesaid by the Governor or Commander in Chief of our said Province for the time being And we do also for us our Heirs & successors hereby will give and grant unto the said Trustees of Dartmouth College aforesaid & to their Successors forever that when any seven or more of the said Trustees or their Successors are convened & met together for the service of said Dartmouth College at any time or times such seven or more shall be capable to act as fully & amply to all intents & purposes as if all the Trustees of said College were personally present — & all affairs & actions whatsoever under the care of the said Trustees shall be determined by the majority or greater number of those seven or more Trustees so convened & met together And we do further will ordain & direct that the President Trustees, Professors & Tutors & all such Officers as shall be appointed for the publick instruction & government of said College shall before they undertake the execution of their Offices or Trusts or within one year after take the Oaths & subscribe the declaration provided by an act of Parliament made in the first year of King George the first entitled "An act for the further security of his Majesty's Person & government & the succession of the Crown in the heirs of the late princess Sophia being Protestants, & for the extinguishing the hopes of the pretended Prince of Wales & his open & secret Abettors," that is to say the President before the Governor of our

said Province for the time being or by one by him impowered to that service or by the President of our said Council & the Trustees Professors Tutors & other Officers before the President of said College for the time being who is hereby impower'd to administer the same an entry of all which shall be made in the Records of said College And we do for us our heirs & Successors hereby will give & grant full Power & Authority to the President hereafter by us named & to his Successors or in case of his failure to any three or more of the said Trustees to appoint other occasional meetings from time to time of the said seven Trustees or any greater number of them to transact any matter or thing necessary to be done before the next annual meeting and to order notice to the said seven or any greater number of them of the times & places of meeting for the service aforesaid by a letter under his or their hands of the same one month¹ before said meeting Provided always that no standing Rule or order be made or altered for the regulation of said College nor any President or Professor be chosen or displaced nor any other matter or thing transacted or done which shall continue in force after the then next annual meeting of said Trustees as aforesaid And further we do by these Presents for us our Heirs and Successors, create make constitute nominate & appoint our Trusty and well beloved ELEAZER WHELOCK Doctor in Divinity the FOUNDER of said College to be PRESIDENT of said DARTMOUTH COLLEGE and to have the immediate care of Education & government of such Students as shall be admitted into said DARTMOUTH COLLEGE for instruction & education and do will give & grant to him in said Office full power authority & right to nominate appoint constitute & ordain by his last will such suitable & meet person or Persons as he shall chuse to succeed him in the Presidency of said Dartmouth College & the person so appointed by his last Will to continue in Office vested with all the powers priviledges Jurisdiction & authority of a President of said Dartmouth College that is to say so long and untill such appointment by said last Will shall be disapproved by the Trustees of said Dartmouth College And we do also for us our heirs and Successors will give & grant to the said Trustees of said Dartmouth College & to their Successors forever or any seven or more of them convened as aforesaid that in the case of the ceasing or failure of a President by any means whatsoever that the said Trustees do elect nominate & appoint SUCH qualified person as they or the major part of any seven or more of them convened for that purpose as

¹ Amended so that a legal meeting may be held at such time and upon such notice as may be prescribed by the rules of the Trustees.

above directed shall think fit to be PRESIDENT of said DARTMOUTH COLLEGE and to have the care of the Education & government of the Students as aforesaid & in case of the ceasing of a President as aforesaid the Senior Professor or Tutor being one of the Trustees shall exercise the Office of a President untill the Trustees shall make choice of & appoint a President as aforesaid & such Professor or Tutor or any three or more of the Trustees shall immediately appoint a meeting of the body of the Trustees for the purpose aforesaid AND also we do will give and grant to the said Trustees convened as aforesaid that they elect nominate & appoint so many Tutors and Professors to assist the President in the Education & government of the Students belonging thereto as they the said Trustees shall from time to time & at any time think needful & serviceable to the interests of said Dartmouth College And also that the said Trustees or their Successors or the major part of any seven or more of them convened for that purpose as above directed shall at any time displace & discharge from the service of said Dartmouth College any or all such Officers & elect others in their room & stead as before directed And also that the said Trustees or their successors or the major part of any seven of them which shall convene for that purpose as above directed do from time to time as occasion shall require elect constitute & appoint a TREASURER a CLERK an USHER & a Steward for the said DARTMOUTH COLLEGE & appoint to them & each of them their respective businesses & trusts & displace & discharge from the service of said College such Treasurer Clerk Usher or Steward & to elect others in their room & stead which Officers so elected as before directed We do for us our heirs & successors by these Presents constitute & establish in their respective Offices & do give to each & every of them full power & Authority to exercise the same in said Dartmouth College according to the directions & during the pleasure of the said Trustees as fully & freely as any like Officers in any of our Universities Colleges or Seminaries of learning in our Realm of Great Britain lawfully may or ought to do, & also that the said Trustees & their Successors or the major part of any seven or more of them which shall convene for that purpose as is above directed as often as one or more of said Trustees shall die or by removal or otherwise shall according to their judgement become unfit or incapable to serve the interests of said College do as soon as may be after the Death removal or such unfitness or incapacity of such Trustee or Trustees elect & appoint such Trustee or Trustees as shall supply the place of him or them so dying or becoming incapable to serve the

interests of said College & every Trustee so elected & appointed shall by virtue of these presents & such election & appointment be vested with all the Powers & priviledges which any of the other Trustees of said College are hereby vested with And we do further Will ordain & direct that from & after the expiration of Two years from the enrollment of these Presents such vacancy or vacancies as may or shall happen by death or otherwise in the aforesaid number of Trustees shall be filled up by election as aforesaid so that when such vacancies shall be filled up unto the complete number of TWELVE Trustees Eight¹ of the aforesaid whole number of the body of Trustees shall be resident and respectable Freeholders of our said Province of New Hampshire & seven of said whole number shall be Laymen And we do further of our special grace certain knowledge and mere motion will give and grant unto the said Trustees of Dartmouth College that they and their Successors or the major part of any seven of them which shall convene for that purpose as is above directed may make & they are hereby fully impowered from time to time fully & lawfully to make and establish such Ordinances Orders & Laws as may tend to the good & wholesome government of the said College & all the Students & the several Officers & Ministers thereof & to the publick benefit of the same not repugnant to the Laws & Statutes of our Realm of GREAT BRITAIN or of this our Province of NEW HAMPSHIRE and not excluding any Person of any religious denomination whatsoever from free & equal liberty & advantage of Education or from any of the liberties and privileges or immunities of the said College on account of his or their speculative sentiments in Religion, & of his or their being of a religious profession different from the said Trustees of the said Dartmouth College And such Ordinances orders & Laws which shall as aforesaid be made We do by these presents for us our heirs & Successors ratify allow of, & confirm as good & effectual to oblige & bind all the Students & the several Officers & Ministers of the said College And we do hereby authorize & empower the said Trustees of Dartmouth College & the President Tutors & Professors by them elected & appointed as aforesaid to put such ordinances laws and orders in execution to all proper intents and purposes And we do further of our special grace certain knowledge & mere motion Will give & grant unto the said Trustees of said Dartmouth College for the encouragement of Learning and animating the Students of said College to diligence & industry & a laudable progress in Literature that they & their

¹ Subsequently amended so as to read *seven*.

Successors or the major part of any seven or more of them convened for that purpose as above directed do by the President of said College for the time being or any other deputed by them give & grant any such degree or degrees to any of the Students of the said College or any others by them thought worthy thereof as are usually granted in either of the Universities or any other College in our Realm of Great Britain & that they sign & seal Diplomas or certificates of such Graduations to be kept by the Graduates as perpetual memorials & testimonials thereof. AND we do further of our special grace certain knowledge & mere motion for us our heirs & Successors by these Presents give & grant unto the Trustees of said Dartmouth College & to their Successors that they & their Successors shall have a common SEAL under which they may pass all Diplomas or Certificates of degrees & all other affairs & business of & concerning the said College which shall be engraven in such a form and with such an inscription as shall be devised by the said Trustees for the time being or by the major part of any seven or more of them convened for the service of the said College as is above directed And we do further for us our heirs & Successors give and grant unto the said Trustees of the said Dartmouth College & their Successors or to the major part of any seven or more of them convened for the service of the said College full power & Authority from time to time to nominate & appoint all other Officers & Ministers which they shall think convenient & necessary for the service of the said College not herein particularly named or mention'd which Officers & Ministers we do hereby empower to execute their Offices & Trusts as fully & freely as any of the Officers & Ministers in our Universities or Colleges in our REALM of GREAT BRITAIN lawfully may or ought to do. AND further that the generous Contributors to the support of this design of spreading the knowledge of the only true God and Saviour among the American Savages may from time to time be satisfied that their liberalities are faithfully disposed of in the best manner for that purpose & that others may in future time be encouraged in the exercise of the like liberality for promoting the same pious design it shall be the duty of the President of the said Dartmouth College & of his Successors annually or as often as he shall be thereunto desired or required to transmit to the Right honorable, honorable & worthy Gentlemen of the Trust in England before mentioned a faithful account of the improvement & disbursements of the several Sums he shall receive from the Donations & bequests made in England through the hands of said Trustees & also advise them of the general plans

laid and prospects exhibited as well as a faithful account of all remarkable occurrences in order if they shall think expedient that they may be published And this to continue so long as they shall perpetuate their board of Trust & there shall be any of the Indian Natives remaining to be proper Objects of that Charity AND lastly our express Will & pleasure is and we do by these presents for us our heirs and Successors give & grant unto the said Trustees of Dartmouth College & to their Successors forever that these our Letters Patent or the enrollment thereof in the SECRETARY'S Office of our Province of New Hampshire aforesaid shall be good & effectual in the Law to all intents & purposes against us our heirs and Successors without any other License Grant or Confirmation from us our heirs & successors hereafter by the said Trustees to be had & obtained notwithstanding the not writing or misrecital not naming or misnaming the aforesaid Offices Franchises Priviledges Immunities or other the Premises or any of them and notwithstanding a writ of Ad quod Damnum hath not issued forth to enquire of the Premises or any of them before the ensailing hereof any Statute Act Ordinance or Provision or any other matter or thing to the contrary notwithstanding TO HAVE AND TO HOLD ALL & singular the Privileges Advantages Liberties Immunities and all other the Premises herein & hereby granted & given or which are meant mentioned or intended to be herein & hereby given and granted unto them the said TRUSTEES of DARTMOUTH COLLEGE and to their Successors forever. IN TESTIMONY whereof We have caused these our Letters to be made Patent and the publick Seal of our said Province of NEW HAMPSHIRE to be hereunto affixed WITNESS our Trusty and well beloved JOHN WENTWORTH Esquire Governor and Commander in Chief in and over our said Province &c^a. this THIRTEENTH day of December in the Tenth year of our Reign and in the year of our Lord one thousand seven hundred and Sixty nine.

By his Excellency's Command }
with advice of Council }

THEODORE ATKINSON, Sec'y

Province of New Hampshire Decemb^r 18th 1769.

Recorded in the book of Charters

Lib: 4^o Fol. 22 to 23 both inclusive.

Per

THEODORE ATKINSON, SEC'Y

JOHN WENTWORTH.

HISTORICAL NOTE

DARTMOUTH COLLEGE is the outgrowth of a school which the Reverend Eleazer Wheelock opened in his home at Lebanon, Conn., December 18, 1754, for the Christian education of Indian youth. The school was known as Moor's Indian Charity School, so named from Joshua Moor, who contributed a house and two acres of land.

Funds for the maintenance of the school were received from various sources, — from private individuals, from the General Courts of Massachusetts Bay and of New Hampshire, and from Great Britain, where the enterprise had awakened the deepest interest. From the latter source an endowment was secured, chiefly through the efforts of Samson Occom, the Indian preacher, one of Dr. Wheelock's students, who was commissioned to make a tour of England and Scotland for this purpose in 1765. The sum of ten thousand pounds was thus raised, and committed to the charge of a board of trustees with the Earl of Dartmouth at its head. As the result of this endowment it was determined by Dr. Wheelock to enlarge the purpose of the school especially to reach "a greater proportion of English youth," and to change its location. Various proposals for a site were made, but after careful investigation the site chosen was the township of Hanover, in the region of Cowas or Coös, in the province of New Hampshire. Apart from the nearness of this site to the Canadian Indians, the determining reason for the choice seems to have been the attractiveness of the location, and the fact that it was the natural center of "more than two hundred towns, chartered, settled, or about to be settled." Removal to the Province of New Hampshire also gave the assurance of a charter, which it had thus far been difficult to obtain.

The draft of the charter prepared by Dr. Wheelock received important modifications from the Governor of the Province, John Wentworth. In particular he rejected the suggestion of a coördinate board of trustees in Great Britain; he gave to the college the name of Lord Dartmouth, its most active patron in Great Britain, although Wheelock had proposed to the Governor to call it by the name of Wentworth; and instead of incorporating it as a "school" or "academy," he

adopted a hint from Wheelock's postscript and made it a "college." The first board of trustees consisted of the Governor with three of his council, the speaker of the New Hampshire House of Representatives, one member of the Connecticut Colonial government, and six Connecticut clergymen selected by Dr. Wheelock.

Dr. Wheelock was elected president of the college, with Mr. Beza-leel Woodward, a graduate of Yale in 1764, as his associate. The first class of four students was graduated in 1771, the Commencement being attended by the Governor of the Province of New Hampshire and a company of gentlemen from Portsmouth, who made their way in part through almost trackless forests.

Two events in the early history of the college materially affected its character and growth. First, the gradual withdrawal of the support of its patrons in Great Britain, whose interest lay chiefly in the education of Indians; second, the lawsuit between the college and the state of New Hampshire for the control of the college, which resulted in a final decision by the Supreme Court of the United States in favor of the Trustees of Dartmouth College. The decision in "The Dartmouth College Case" was rendered in February, 1819. Since the reestablishment of the college by this decision, its history has followed the general course of educational progress in New England.

Other institutions have from time to time been associated with or incorporated into the college.

Moor's Indian Charity School was made an independent institution when the college was founded. The school was maintained as late as 1849. It still has a legal existence with the title — "The President of Moor's Charity School." The trustees are the same in person with those of the college, though forming a separate corporation.

The Dartmouth Medical School dates from the establishment in 1798 of a professorship of medicine in the college, first filled by Dr. Nathan Smith, who was instrumental in its establishment. The school is under the general control of the Trustees of Dartmouth College, by which body degrees are conferred, but the management of its affairs is committed to the Medical Faculty. Associated with the Medical College is the Mary Hitchcock Hospital (1893), the memorial gift of Hiram Hitchcock, Esq., of Hanover.

The Chandler School of Science and the Arts, established in 1851 by a resolution of the trustees, in acceptance of a sum bequeathed to them in trust by Abiel Chandler, Esq., "for the establishment and support of a permanent department or school of instruction in the col-

lege, in the practical and useful arts of life," was more formally incorporated into the college by the joint action of the Trustees of the College and the Visitors of the Chandler School in 1893, and is now known as the Chandler Scientific Course in the college, leading to the degree of B.S.

The Thayer School of Civil Engineering, established in 1867 by the bequest of General Sylvanus Thayer, is essentially a graduate school, covering a course of two years, and conferring the degree of Civil Engineer. The funds of the school are in charge of the trustees of the college; otherwise its affairs are managed by a board of overseers, which is a close corporation.

The presidency of the college has been held as follows:

Eleazer Wheelock, 1769-1779.	Bennett Tyler, 1821-1828.
John Wheelock, 1779-1815.	Nathan Lord, 1828-1863.
Francis Brown, 1815-1820.	Asa Dodge Smith, 1863-1877.
Daniel Dana, 1820-1821.	Samuel Colcord Bartlett, 1877-1892.
William Jewett Tucker, 1893-.	

REGISTER

TRUSTEES OF DARTMOUTH COLLEGE

AND OF MOOR'S CHARITY SCHOOL

WILLIAM JEWETT TUCKER, D.D., LL.D., PRESIDENT.
HIS EXCELLENCY GEORGE A. RAMSDELL, A.M. (*ex officio*),
Nashua, N. H.
HENRY FAIRBANKS, Ph.D. *St. Johnsbury, Vt.*
ISAAC W. SMITH, LL.D. *Manchester, N. H.*
WILLIAM M. CHASE, LL.D. *Concord, N. H.*
JAMES B. RICHARDSON, LL.D. *Boston, Mass.*
CYRUS RICHARDSON, D.D. *Nashua, N. H.*
FRANK S. STREETER, A.B. *Concord, N. H.*
CHARLES F. MATHEWSON, LL.B. . . . *New York, N. Y.*
EDWARD D. REDINGTON, A.M. *Chicago, Ill.*
BENJAMIN A. KIMBALL, B.S. *Concord, N. H.*
CECIL F. P. BANCROFT, Ph.D., LL.D. . . *Andover, Mass.*

TREASURER

CHARLES P. CHASE, A.M. *Hanover, N. H.*

EX OFFICIO TRUSTEES OF THE COLLEGE IN RE- LATION TO FUNDS GIVEN BY THE STATE OF NEW HAMPSHIRE

COUNCILLORS

HON. JOSEPH O. HOBBS *North Hampton*
HON. ALLEN N. CLAPP *Manchester*
HON. GEORGE W. CUMMINGS *Francestown*
HON. WALTER S. DAVIS *Hopkinton*
HON. CHARLES F. PIPER *Wolfeborough*

THE PRESIDENT OF THE SENATE

HON. CHESTER B. JORDAN *Lancaster*

THE SPEAKER OF THE HOUSE OF REPRESENTATIVES

HON. JAMES F. BRIGGS *Manchester*

THE CHIEF JUSTICE OF THE SUPREME COURT

ISAAC N. BLODGETT, A.M. *Franklin*STANDING COMMITTEES OF THE TRUSTEES FOR
THE YEAR 1898-99

COMMITTEE ON FINANCE,

Messrs. J. B. Richardson (1899), Kimball (1900), Mathewson
(1901), Chase (1902).

ON INSTRUCTION,

Messrs. Bancroft, Fairbanks, Chase, C. Richardson.

ON EQUIPMENT,

Messrs. Fairbanks, Redington, Smith.

ON BUILDINGS AND IMPROVEMENTS,

Messrs. Streeter, J. B. Richardson, Kimball, Mathewson.

ON DEGREES,

Messrs. Smith, Bancroft, C. Richardson.

ON RELATION OF COLLEGE TO STATE,

Messrs. Kimball, C. Richardson, Streeter.

ON RELATION OF COLLEGE TO ALUMNI,

Messrs. J. B. Richardson, Fairbanks, Redington

ON LEGAL MATTERS,

Messrs. Chase, J. B. Richardson, Streeter.

The President of the College is a member *ex officio* of the Committee on Finance, on Instruction, on Equipment, on Buildings and Improvements, and on Degrees.

VISITORS ON THE CHANDLER FOUNDATION

JOHN HOPKINS, B.S. *Millbury, Mass.*
DAVID H. ANDREWS, B.S. *Newton, Mass.*

OVERSEERS OF THE THAYER SCHOOL OF
CIVIL ENGINEERING

THE PRESIDENT OF DARTMOUTH COLLEGE.
GEN. GEORGE L. ANDREWS *Brookline, Mass.*
GEN. JOHN C. PALFREY *Boston, Mass.*
PETER S. MICHIE, PH.D. *West Point, N. Y.*
GEN. HENRY L. ABBOT, LL.D. *Cambridge, Mass.*

OFFICERS OF ADMINISTRATION AND INSTRUCTION¹

WILLIAM JEWETT TUCKER, D.D., LL.D., *President.*
43 College St.

OLIVER PAYSON HUBBARD, M.D., LL.D., *Professor Emeritus of Chemistry and Pharmacy.* 117 55th St., New York, N.Y.

*SAMUEL COLCORD BARTLETT, D.D., LL.D., *Lecturer on the Bible and its Relation to Science and History on the Phillips Foundation.*

HENRY GRISWOLD JESUP, A.M., *Professor of Botany on the Chandler Foundation.* 33 N. Main St.

JOHN ORDRONAU, M.D., LL.D., *Professor of Medical Jurisprudence.* Roslyn, N. Y.

CHARLES HENRY HITCHCOCK, PH.D., LL.D., *Hall Professor of Geology and Mineralogy.* 15 E. Wheelock St.
(On leave of absence for the year.)

GRANVILLE PRIEST CONN, A.M., M.D., *Professor of Hygiene.* Concord, N. H.

HENRY MARTYN FIELD, A.M., M.D., *Professor Emeritus of Therapeutics.* Pasadena, Cal.

PHINEAS SANBORN CONNER, M.D., LL.D., *Professor of Surgery.* 215 W. 9th St., Cincinnati, O.

EDWARD COWLES, M.D., LL.D., *Professor of Mental Diseases.* Waverly, Mass.

WILLIAM THAYER SMITH, M.D., LL.D., *Professor of Physiology and Dean of the Medical Faculty.* 9 School St.

¹ Arranged, with the exception of the President, according to College Seniority.

* Deceased Nov. 16, 1898.

- GEORGE PUTNAM HUNTINGTON, D.D., *Instructor in Hebrew.*
19 S. Main St.
- GABRIEL CAMPBELL, M.Pd., D.D., *Stone Professor of Intellectual and Moral Philosophy.*
29 N. Main St.
- PAUL FORTUNATUS MUNDÉ, M.D., LL.D., *Professor of Gynecology.*
20 W. 45th St., New York, N. Y.
- ROBERT FLETCHER, Ph.D., *Professor of Civil Engineering and Director of the Thayer School.*
42 College St.
- CHARLES FRANKLIN EMERSON, A.M., *Appleton Professor of Natural Philosophy and Dean of the Academic Faculty.*
33 College St.
- JOHN KING LORD, Ph.D., *Daniel Webster Professor of the Latin Language and Literature.*
37 College St.
- DAVID WEBSTER, M.D., *Professor of Ophthalmology.*
327 Madison Ave., New York, N. Y.
- WILLIAM HENRY PARISH, M.D., *Professor of Obstetrics.*
1435 Spruce St., Philadelphia, Pa.
- FRANK ASBURY SHERMAN, M.S., *Professor of Mathematics on the Chandler Foundation.*
37 N. Main St.
- CHARLES FRANCIS RICHARDSON, Ph.D., *Winkley Professor of the English Language and Literature.*
6 School St.
- MARVIN DAVIS BISBEE, B.D., *Professor of Bibliography and Librarian.*
11 W. Wheelock St.
- THOMAS WILSON DORR WORTHEN, A.M., *Cheney Professor of Mathematics.*
11 Webster Ave.
- EDWIN JULIUS BARTLETT, A.M., M.D., *New Hampshire Professor of Chemistry.*
8 W. Wheelock St.
- JAMES FAIRBANKS COLBY, A. M., LL.B., *Parker Professor of Law and Political Science.*
2 Elm St.

GEORGE ADAMS LELAND, A.M., M.D., *Professor of Laryngology.*
669 Boylston St., Boston, Mass.

JOHN VOSE HAZEN, C.E., *Woodman Professor of Civil Engineering and Graphics on the Chandler Foundation.*
33 N. Main St.

CHARLES DARWIN ADAMS, PH.D., *Lawrence Professor of the Greek Language and Literature.*
1 N. Park St.

DAVID COLLIN WELLS, A.B., *Professor of Sociology.*
20 N. Main St.

TILGHMAN MINNOUR BALLIET, A.M., M.D., *Professor of Therapeutics.*
3709 Powelton Ave., Philadelphia, Pa.

WILLIAM PATTEN, PH.D., *Professor of Zoölogy.*
15 Webster Ave.

GEORGE DANA LORD, A.M., *Assistant Professor of Greek and of Greek Archaeology.*
46 College St.

HERBERT DARLING FOSTER, A.M., *Professor of History.*
9 Webster Ave.

EDWIN BRANT FROST, A.M. (*Professor Chicago University*),
Instructor in Astronomy.
11 E. Wheelock St.

GILMAN DuBOIS FROST, A.M., M.D., *Professor of Anatomy and Secretary and Treasurer of the Medical Faculty.*
13 E. Wheelock St.

FRANK GARDNER MOORE, PH.D., *Assistant Professor of Latin.*
36 N. Main St.

FRED PARKER EMERY, A.M., *Willard Professor of Rhetoric and Oratory.*
13 Webster Ave.

JOHN MARTIN GILE, A.M., M.D., *Professor of the Science and Practice of Medicine.*
1 Maynard St.

ERNEST FOX NICHOLS, Sc.D., *Professor of Physics and Director of the Wilder Laboratory.*
The Wheelock.

ALBERT CUSHING CREHORE, PH.D., *Appleton Assistant Professor of Natural Philosophy.*

(On leave of absence for two years.)

JOHN HIRAM GEROULD, PH.D., *Instructor in Zoölogy.*

(On leave of absence for the year.)

LOUIS HENRY DOW, A.M., *Assistant Professor of French.*
2 Occom Ridge.

HENRY EDWIN BURTON, PH.D., *Assistant Professor of Latin.*
The Wheelock.

JOHN HARVEY PROCTOR, A.M., *Assistant in Mathematics.*
10 N. Main St.

WILLIAM GEORGE STOUGHTON, A.M., *Assistant Professor of German.*
4 Wentworth St.

FRANK HAIGH DIXON, PH.D., *Assistant Professor of Economics.*
36 N. Main St.

JOHN CHAMBERLAIN ROE, PH.D., *Instructor in French.*
The Wheelock.

CHARLES HENRY RICHARDSON, PH.D., *Instructor in Chemistry and Mineralogy.*
4 College St.

ELMER HOWARD CARLETON, A.B., M.D., *Instructor in Physical Culture and Director of the Gymnasium.*
4 Occom Ridge.

ERNEST FELIX LANGLEY, A.B., *Instructor in French.*
4 Wentworth St.

HERBERT SPENCER JENNINGS, PH.D., *Instructor in Zoölogy.*
38 N. Main St.

GEORGE MAXWELL HOWE, A.B., *Instructor in German.*
4 Wentworth St.

ASHLEY KINGSLEY HARDY, A.B., *Instructor in German.*
(On leave of absence for the year.)

CRAVEN LAYCOCK, A.B., *Instructor in Elocution and Oratory on the Evans Foundation.* 30 N. Main St.

JOHN MERRILL POOR, A.B., *Instructor in Mathematics and Astronomy.* 4 Wentworth St.

HOWARD NELSON KINGSFORD, M.D., *Instructor in Pathology and Bacteriology.* 19 College St.

HENRY BARRETT HUNTINGTON, A.B., *Instructor in English.* 19 S. Main St.

ETTA MATTOCKS NEWELL, *Assistant Librarian.* The Wheelock.

ALEXANDER ANDERSON MCKENZIE, *Superintendent of Buildings.* 44 College St.

OFFICE HOURS

THE PRESIDENT — Administration Building — 8.30 to 9.30 A.M. daily, and 1.30 to 2.30 P.M., except Wednesdays and Saturdays.

THE TREASURER — Bank Building — 1.30 to 2.30 P.M. daily.

THE DEAN OF THE COLLEGE — Administration Building — 10.30 to 11.30 A.M. daily, and 3.30 to 4.30 P.M., except Wednesdays and Saturdays.

THE DEAN OF THE MEDICAL SCHOOL — Office at 9 School St. — 1.30 to 2.30 P.M. daily.

THE SECRETARY OF THE MEDICAL SCHOOL — Office at 13 E. Wheelock St. — 8 to 8.30 A.M., 1.30 to 2, and 7 to 7.30 P.M., daily.

THE DIRECTOR OF THE THAYER SCHOOL — Office at Thayer Building — 9 to 10 A.M. daily.

THE SUPERINTENDENT OF BUILDINGS — Administration Building — 8 to 8.30 A.M., 11.30 to 12, and 5.30 to 6 P.M.

LIBRARY HOURS — 9 A.M. to 12.30 P.M. and 1.30 to 5 P.M.

Reading and Reference Rooms are open from 8 A.M. to 10 P.M., week-days, and Reading Rooms on Sundays from 1.30 to 5.30 P.M.

BOARD OF PREACHERS, 1898-99

SAMUEL P. LEEDS, D.D., *Pastor of the College Church.*

THE PRESIDENT OF THE COLLEGE.

FRANCIS BROWN, D.D., *Union Theological Seminary.*
New York, N. Y.

GEORGE HARRIS, D.D., *Theological Seminary.*
Andover, Mass.

WILLIAM DEWITT HYDE, D.D., *Bowdoin College.*
Brunswick, Me.

GEORGE A. GORDON, D.D., *Old South Church.*
Boston, Mass.

JOHN W. CHURCHILL, D.D., *Theological Seminary.*
Andover, Mass.

GEORGE HODGES, D.D., *Episcopal Seminary.*
Cambridge, Mass.

WILLIAM E. BARTON, D.D., *Shawmut Church.*
Boston, Mass.

MELANCTHON W. JACOBUS, D.D., *Theological Seminary.*
Hartford, Conn.

HARRY P. DEWEY, D.D., *South Church.*
Concord, N. H.

The term of service of each Preacher is from two to four Sundays, with the exception of the Pastor of the College Church, whose term is six Sundays.

The Preacher of the day is at Bartlett Hall on Sunday afternoon at four o'clock for personal interviews with the students.

STUDENTS

GRADUATE SCHOLARS

Bacon, Arthur Avery	Hanover, N. H.	10 School St.
B.A. 1897. Physics: <i>Assistant in Laboratory.</i>		
Bailey, Edward Percy	Hinsdale, N. H.	T. H. 18
B.A. 1897. Geology.		
Farley, George Louis	Hanover, N. H.	K. K. K. House
B.S. 1898. Physics.		
Rodgers, Bradley Carleton	Newtown, Conn.	19 N. Main St.
B.A. 1898. Political Science.		

UNDERGRADUATES

c denotes Classical Course; Degree of B.A.
 l denotes Latin-Scientific Course; Degree of B.L.
 s denotes Chandler Scientific Course; Degree of B.S.

SENIORS

Name	Course	Residence	Room
Abbott, Alson Morgan	c	<i>Glens Falls, N. Y.</i>	C. H. 8
Abbott, Ernest Albert	c	<i>Randolph, Vt.</i>	T. H. 2
Asakawa, Kanichi	c	<i>Fukushima, Japan</i>	C. H. 23
Atwood, William Thompson	c	<i>Hampden Corner, Me.</i>	1 W. Wheelock St.
Baldwin, Edward Grout	c	<i>Barton, Vt.</i>	1 S. Park St.
Barney, James Leonard	s	<i>Hyde Park, Mass.</i>	C. G. House
Barstow, Elmer Williams	c	<i>Hanover, Mass.</i>	B. H. 4
Beal, Kenneth	c	<i>Cohasset, Mass.</i>	H. H. 2
Benezet, Louis Paul	c	<i>Peoria, Ill.</i>	H. H. 8
Berger, Henry John	L	<i>Webster, Mass.</i>	Rd. H. 10
Bonney, Charles Walter	L	<i>Hanover, N. H.</i>	24 Lebanon St.
Boston, Albert Warren	L	<i>North Berwick, Me.</i>	18 S. Main St.

STUDENTS

35

Name	Course	Residence	Room
Brown, Arthur Hayward	L	<i>Amesbury, Mass.</i>	Rd. H. 9
Brown, Nelson Pierce	C	<i>Everett, Mass.</i>	C. G. House
Carson, Philip Worcester	L	<i>Boston, Mass.</i>	34 N. Main St.
Chandler, Edward Dunham	C	<i>Woodstock, Vt.</i>	Rd. H. 14
Chase, Hawley Barnard	L	<i>Newport, N. H.</i>	Rd. H. 10
Chase, Theodore Woolsey	C	<i>Hanover, N. H.</i>	38 College St.
Child, James Dwight	L	<i>Piermont, N. H.</i>	Rn. H. 2
Clark, George Gallup	C	<i>Plymouth, N. H.</i>	C. H. 10
Collar, Herbert Coe	L	<i>Boston, Mass.</i>	C. H. 6
Corey, Guy Edminston	C	<i>Portsmouth, N. H.</i>	S. H. 19
Crolius, Frederick Joseph	L	<i>Waltham, Mass.</i>	C. G. House
Currier, Charles Newton	S	<i>Amesbury, Mass.</i>	5 W. Wheelock St.
Cushman, Charles Elliot	C	<i>Randolph, Vt.</i>	S. H. 1
Dearborn, Henry Hale	C	<i>Milford, N. H.</i>	Rn. H. 28
Dickey, Maurice Woodburn	C	<i>Milton, N. H.</i>	H. H. 5
Donahue, Charles Henry	L	<i>Milford, N. H.</i>	W. H. 19
Drake, Percy Greenough	S	<i>Rye, N. H.</i>	1 W. Wheelock St.
Drew, Pitt Fessenden	C	<i>Lancaster, N. H.</i>	S. H. 13
Eastman, Earl	L	<i>Franklin, N. H.</i>	T. H. 6
Eastman, Walter Roy	C	<i>Quechee, Vt.</i>	Rd. H. 1
Edwards, Joseph Henry	C	<i>Middleboro, Mass.</i>	18 S. Main St.
Evans, George Hill	L	<i>Conway, N. H.</i>	D. H. 4
Folsom, Charles Albert	C	<i>West Epping, N. H.</i>	18 S. Main St.
Ford, Daniel	L	<i>Hyde Park, Mass.</i>	Rn. H. 22
Foss, Walter Andrew	C	<i>Dover, N. H.</i>	S. H. 1
French, Harold Oscar	L	<i>Hartford, Vt.</i>	H. H. 8
French, John McQuesten	S	<i>West Lebanon, N. H.</i>	D. H. 11
Fuller, Montie John Baker	C	<i>Danby, Vt.</i>	T. H. 4
Galusha, Albert Leet	S	<i>Nashua, N. H.</i>	Thayer Building
Gannon, Joseph William	C	<i>Concord, N. H.</i>	C. G. House
Gerould, Gordon Hall	C	<i>Hollis, N. H.</i>	S. H. 4
Graham, Charles Pratt	L	<i>East St. Johnsbury, Vt.</i>	C. G. House
Greenwood, Albert Henry	S	<i>Lawrence, Mass.</i>	A. A. Φ. House
Hardy, Horace Dexter	C	<i>Arlington, Mass.</i>	S. H. 20
Hartley, Joseph Henry	S	<i>Lawrence, Mass.</i>	12 Lebanon St.
Hawkes, Ralph Wilson	C	<i>York Harbor, Me.</i>	K. K. K. House
Heywood, Augustine Ledru	C	<i>Bucksport, Me.</i>	H. H. 15
Hoban, Owen Albert	C	<i>Winchendon, Mass.</i>	Rd. H. 19
Hobbs, Joseph Wilson	C	<i>Kittery, Me.</i>	6 W. South St.
Hodgkins, Willis Bradlee	C	<i>Somerville, Mass.</i>	38 College St.
Hopkins, Arthur Warren	C	<i>Manchester, N. H.</i>	Wallace House 5
Hoskins, Neal Luther	C	<i>Lisbon, N. H.</i>	S. H. 20

Name	Course	Residence	Room
Huckins, George Laurie	s	<i>Plymouth, N. H.</i>	1 W. Wheelock St.
Hutchinson, William Loveland	s	<i>Norwich, Vt.</i>	Thayer Building
Hyatt, Edwin Arnold	s	<i>Spragueville, N. Y.</i>	Rn. H. 12
Hyatt, Willard Isaac	c	<i>Spragueville, N. Y.</i>	Rn. H. 12
Irving, Arthur Pearl	s	<i>Chelsea, Mass.</i>	Rn. H. 3
Johnston, Robert Philbrick	s	<i>Manchester, N. H.</i>	S. H. 19
Jordan, Wesley William	c	<i>Plainfield, N. H.</i>	1 W. Wheelock St.
Joy, Clarence Lovell	c	<i>Brockton, Mass.</i>	Observatory
Kendall, Warren Cleaveland	s	<i>Pompanoosuc, Vt.</i>	C. G. House
Kimball, Arthur Elwin	s	<i>Lynn, Mass.</i>	C. H. 6
Ladd, Harry	L	<i>Epping, N. H.</i>	17 School St.
Lane, Peter Henry	L	<i>Nahant, Mass.</i>	T. H. 7b
Leavitt, Alvin Benton	s	<i>Tilton, N. H.</i>	D. H. 8
Locke, Fred Ford	c	<i>Kittery, Me.</i>	6 W. South St.
Lynch, Theobald Andrew	c	<i>Oakdale, Mass.</i>	C. H. 10
Martin, Leon Alonzo	c	<i>White River Junction, Vt.</i>	W. H. 2
Miller, Charles O, Jr.	s	<i>Stamford, Conn.</i>	C. G. House
Miller, Herbert Adolphus	c	<i>Boston, Mass.</i>	T. H. 7a
Musgrove, Frank Abbott	c	<i>Bristol, N. H.</i>	C. G. House
Nye, Edward Lucius	c	<i>Coventry, Vt.</i>	Rd. H. 9
Oakes, Luther Stevens	s	<i>Windsor, Vt.</i>	A. A. ♀ House
Osgood, Paul Moody	s	<i>Amesbury, Mass.</i>	1 W. Wheelock St.
Parker, David Woodbury	c	<i>Goffstown, N. H.</i>	K. K. K. House
Pearl, Raymond	c	<i>Farmington, N. H.</i>	12 Lebanon St.
Prescott, George James	L	<i>Meredith, N. H.</i>	Rn. H. 2
Richardson, James Parmelee	c	<i>St. Johnsbury, Vt.</i>	Rn. H. 19
Rogers, Herbert Spencer	c	<i>Tilton, N. H.</i>	19 N. Main St.
Rounds, George Munroe	c	<i>Calais, Me.</i>	C. G. House
Rowe, Robert Gordon	c	<i>Brentwood, N. H.</i>	Rd. H. 1
Sanborn, Frederick Rodney	c	<i>Somersworth, N. H.</i>	S. H. 10
Sanborn, John Leonard	s	<i>Hyde Park, Mass.</i>	C. G. House
Sargeant, Moses Motley	c	<i>Candia, N. H.</i>	K. K. K. House
Sewall, Millard Freeman	c	<i>York Village, Me.</i>	1 W. Wheelock St.
Silver, Ernest Leroy	L	<i>Salem, N. H.</i>	T. H. 5
Skinner, Edward Raymond	s	<i>West Upton, Mass.</i>	Rd. H. 10
Sleeper, Alvah Guy	s	<i>Franklin, N. H.</i>	W. H. 17
Smith, Samuel Justin	s	<i>Windsor, Vt.</i>	Thayer Building
Sturtevant, Charles Chase	c	<i>Keene, N. H.</i>	S. H. 4
Surrey, Frank Miller	c	<i>Middleboro, Mass.</i>	B. H. 4
Tootell, Albert Ballard	c	<i>Salem, N. H.</i>	W. H. 19
Varney, Lucius Everett	L	<i>Dover, N. H.</i>	C. G. House
Walker, Fred Austin	L	<i>Marlboro, Mass.</i>	H. II. 9

STUDENTS

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Name	Course	Residence	Room
Wardle, Edward Beaumont	s	<i>Slatersville, R. I.</i>	D. H. 11
Wason, Harry Alexander	L	<i>Quincy, Mass.</i>	K. K. K. House
Watson, Herbert Leslie	s	<i>Manchester, N. H.</i>	W. H. 17
Whittier, Thomas Tupper	c	<i>North Berwick, Me.</i>	25 S. Main St.
Wiggin, Arthur Dean	c	<i>Barton, Vt.</i>	Rd. H. 3
Wilder, Ralph Spencer	s	<i>Winchendon, Mass.</i>	D. H. 8
Willard, Harley Richard	c	<i>Sutton, Vt.</i>	Rd. H. 3
Winchester, Philip Harold	s	<i>Portland, Me.</i>	Observatory
Woodman, Leon Elmer	c	<i>Claremont, N. H.</i>	Wallace House 5
Woodward, Walter Carleton	L	<i>Randolph, Vt.</i>	T. H. 15
Worthen, Arthur Stearns	s	<i>West Lebanon, N. H.</i>	Rood House 14

JUNIORS

Allen, Edwin Laurence	c	<i>Limerick, Me.</i>	15 E. Wheelock St.
Arundel, Daniel Alphonsus	s	<i>Lawrence, Mass.</i>	S. H. 23
Ash, John William	s	<i>Manchester, N. H.</i>	1 S. Park St.
Atwood, Fred Edwin	s	<i>Chelsea, Vt.</i>	Rn. H. 14
Balkam, Gilbert	s	<i>Hyde Park, Mass.</i>	Rd. H. 6
Banning, Samuel Walker	c	<i>Chicago, Ill.</i>	C. H. 2
Barker, Edson Moulton	L	<i>Plymouth, N. H.</i>	S. H. 12
Barrows, Nathaniel Haven	s	<i>Haverhill, Mass.</i>	C. H. 14
Bigelow, Edward Bridge	c	<i>Grafton, Mass.</i>	K. K. K. House
Blair, Walter	c	<i>Boston, Mass.</i>	K. K. K. House
Boyle, Charles John	L	<i>Worcester, Mass.</i>	C. H. 5
Bradley, Francis James	c	<i>North Easton, Mass.</i>	H. H. 24
Brooks, Robert Hartley	c	<i>Claremont, N. H.</i>	T. H. 17
Brown, Edward Theodore	s	<i>Windsor, Vt.</i>	D. H. 8
Buck, Burton Winthrop	L	<i>Manchester, N. H.</i>	20 N. Main St.
Butterfield, Clarence Egbert	L	<i>Perkinsville, Vt.</i>	D. H. 3
Cate, Edgar Randal	s	<i>Haverhill, Mass.</i>	C. H. 20
Chapman, Frank William	s	<i>Franklin Falls, N. H.</i>	C. H. 5
Chesley, Alfred Evan	c	<i>North Andover, Mass.</i>	Wallace House 6
Clark, William Edward, Jr.	L	<i>Charlestown, N. H.</i>	D. H. 7
Condit, Dayton Lord	s	<i>St. Paul, Minn.</i>	37 College St.
Cook, William Henry	L	<i>Chelsea, Mass.</i>	Rn. H. 1
Corson, Freeman	s	<i>Rochester, N. H.</i>	S. H. 27
Cristy, Horace Wakefield	c	<i>Worcester, Mass.</i>	Rn. H. 6
Davis, Harry Bertram	L	<i>North Easton, Mass.</i>	Rn. 15
Dearborn, Edmond Gerrish	c	<i>Milford, N. H.</i>	Rn. H. 30
Dearborn, Jesse Judson	c	<i>Milford, N. H.</i>	Rn. H. 30
Dickinson, William Clinton	c	<i>Lisbon, N. H.</i>	T. H. 1

Name	Course	Residence	Room
Dodd, Loring Holmes	C	<i>Brooklyn, N. Y.</i>	27 Allen St.
Dolloff, Charles Hall	L	<i>Everett, Mass.</i>	T. H. 16
Downing, Arthur Taylor	C	<i>Hanover, N. H.</i>	19 Allen St.
Drew, Charles Allen	S	<i>Jamaica Plain, Mass.</i>	Rn. H. 14
Dunlap, Roger Allen	C	<i>East Concord, N. H.</i>	W. H. 1
Dutton, Julius Maltby	C	<i>Newtonville, Mass.</i>	K. K. K. House
Eaton, Roland Grosvenor	L	<i>Danvers, Mass.</i>	Rn. H. 14
Emerson, Natt Waldo	C	<i>Candia, N. H.</i>	1 W. Wheelock St.
Fairfield, Arthur Perry	C	<i>Lyme, N. H.</i>	19 Allen St.
Fletcher, Walter Holden	C	<i>Concord, N. H.</i>	W. H. 1
Foss, Calvin Whitten	L	<i>Pittsfield, N. H.</i>	1 W. Wheelock St.
Foster, Oliver Wallace	C	<i>Milford, N. H.</i>	S. H. 17
Fowler, Alvah Tennant	S	<i>Pembroke, N. H.</i>	B. H. 3
Fraser, William Murdock	C	<i>Concord, N. H.</i>	Rn. H. 24
Gafforio, Pippo Joseph	L	<i>Bradford, N. H.</i>	Rood House 12
Gibson, Jasper Manlius	S	<i>Clinton, Mass.</i>	C. H. 20
Gilson, Henry Brockway	L	<i>Chicago, Ill.</i>	C. H. 1
Goodhue, Everett Walton	C	<i>Westminster, West, Vt.</i>	25 S. Main St.
Guild, Frank Harvey	C	<i>Claremont, N. H.</i>	S. H. 6
Hadley, Augustus Andrew	C	<i>Marion, Mass.</i>	S. H. 7
Hadlock, Fred Herbert	C	<i>Piermont, N. H.</i>	1 W. Wheelock St.
Ham, Guy Andrews	C	<i>Boston, Mass.</i>	C. H. 13
Hastings, Harold Ripley	C	<i>Nashua, N. H.</i>	T. H. 10
Hatch, Royal	C	<i>Strafford, Vt.</i>	T. H. 10
Hayden, Arthur Bowers	C	<i>Claremont, N. H.</i>	T. H. 2
Hildreth, George Kelsea	C	<i>Bethlehem, N. H.</i>	Rd. H. 15
Howard, William Earle	L	<i>Hyde Park, Mass.</i>	C. H. 7
Howe, Frank Martin	C	<i>Weston, Vt.</i>	25 S. Main St.
Hoyt, Charles Hamilton	S	<i>Washington, N. H.</i>	9 College St.
Hutchins, Harry	C	<i>Lancaster, N. H.</i>	Rd. H. 13
Hutchison, James Burnie	S	<i>Chicago, Ill.</i>	T. H. 7b
Jackson, Robert	C	<i>Littleton, N. H.</i>	Rn. H. 23
Jenkins, Frederick Warren	C	<i>Bradford, Mass.</i>	Rd. H. 5
Jenkins, Harry Milo	S	<i>Bradford, Vt.</i>	1 W. Wheelock St.
Jennings, Fred Everett	C	<i>Everett, Mass.</i>	C. H. 11
Jonakowski, Edmund Joseph	C	<i>Webster, Mass.</i>	Rd. H. 15
Keyes, Homer Eaton	L	<i>Brooklyn, N. Y.</i>	T. H. 17
Kimball, Arthur Stevens	C	<i>Battle Creek, Mich.</i>	11 E. Wheelock St.
Lambert, Avery Eldorus	†S	<i>Thetford, Vt.</i>	Thetford, Vt.
Leonard, Richard	C	<i>Rochester, N. H.</i>	8 College St.
Lewis, Franklin Crocker	C	<i>Centerville, Mass.</i>	W. H. 16

† Special course.

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Name	Course	Residence	Room
Lewis, Rutherford Thurman			
Lamar	L	Everett, Mass.	S. H. 12
Long, John Hathaway	C	Claremont, N. H.	S. H. 6
McDavitt, Clarence Godfrey	S	Pompton Lakes, N. J.	Rn. H. 8
Mahoney, Cornelius John	C	North Andover, Mass.	Wallace House 6
Manion, Joseph William	C	Weymouth, Mass.	W. H. 6
Marshall, Harry Ignatius	C	Nashua, N. H.	9 College St.
Martin, Arthur	C	Springfield, O.	T. H. 8
Mathes, John Ralph	S	Dover, N. H.	Rn. H. 23
Merrill, George Frye	C	Portland, Me.	C. H. 9
Merry, Louis Augustus	L	Somerville, Mass.	S. H. 9
Metcalf, Frank Arthur	C	South Acworth, N. H.	A. H. 5
Miller, Clifton Thompson	L	South Hadley Falls, Mass.	Rd. H. 7
Moody, John Franklin, Jr.	C	Auburn, Me.	Rn. H. 5
Moulton, Horace Freeman	C	Randolph, Vt.	S. H. 16
Murray, Lindley Zechariah	C	Brooklyn, N. Y.	A. A. ☐. House
Norris, Arthur Henry	S	Hyde Park, Mass.	Rd. H. 8
O'Malley, Michael Henry	C	Clinton, Mass.	Rd. H. 19
Orcutt, Harold William	C	Wollaston, Mass.	Rn. H. 5
O'Sullivan, William Daniel	L	Lawrence, Mass.	C. H. 5
Paddock, Clarence Erwin	S	East Berlin, Conn.	W. H. 16
Phillips, Julian Wallingford	L	Framingham, Mass.	C. H. 1
Prescott, Benjamin Franklin	S	Epping, N. H.	8 Lebanon St.
Proctor, Charles Albert	C	Hanover, N. H.	10 N. Main St.
Prouty, Leonard Albert	L	West Brookfield, Mass.	K. K. K. House
Rankin, Walter Poland	C	Boston, Mass.	C. H. 13
Redington, John Chase	C	Evanston, Ill.	1 W. Wheelock St.
Redington, Paul Goodwin	C	Evanston, Ill.	1 W. Wheelock St.
Rice, Herbert Wood	S	Henniker, N. H.	52 S. Main St.
Rich, Charles Augustus	S	Danvers, Mass.	37 N. Main St.
Rich, Dwight Bradley	L	Roxbury, Mass.	Rd. H. 8
Richardson, Harry Webb	C	Lisbon, N. H.	T. H. 1
Richardson, Leon Burr	L	Lebanon, N. H.	A. H. 5
Risley, Wilfred Cary	S	Piermont, N. H.	The Wheelock
Roberts, Arthur Stanley	C	Andover, Mass.	Rn. H. 1
Rogers, Charles Warner	S	Alstead, N. H.	Rn. H. 3
Salinger, Victor Randolph	L	Rochester, N. H.	C. H. 3
Sampson, Harry LeBaron	C	Middleboro, Mass.	S. H. 5
Sanborn, Channing Tewks-			
bury	C	Concord, N. H.	Rd. H. 7
Sargent, Charles	S	Walpole, N. H.	1 N. Park St.
Sawyer, Roy Robinson	C	Orange, Mass.	S. H. 18

Name	Course	Residence	Room
Sears, Frank Dana	s	Hyde Park, Mass.	1 W. Wheelock St.
Sears, Horace Holmes	s	Hyde Park, Mass.	1 W. Wheelock St.
Snow, Robert Oland	L	New Britain, Conn.	W. H. 6
Speare, Guy Edwin	c	Randolph, Vt.	T. H. 4
Sprague, Embert Hiram	s	Haverhill, Mass.	C. H. 20
Standish, Vaughan Ellis	s	Concord, N. H.	5 W. Wheelock St.
Stevens, Sidney Francis	s	Somersworth, N. H.	S. H. 25
Stickney, William	L	Bethel, Vt.	C. H. 5
Storrs, Edward Payson, Jr.	s	Hanover, N. H.	42 S. Main St.
Teague, Henry Nelson	c	Gloucester, Mass.	Rn. H. 20
Thayer, Nathaniel Clinton	L	Chicago, Ill.	T. H. 7b
Tirrell, Cornelius Urban	L	South Weymouth, Mass.	Rd. H. 12
Tong, George William	c	Brooklyn, N. Y.	A. Δ. Φ. House
Trull, Herbert Lewis	s	North Tewksbury, Mass.	S. H. 17
Tuttle, Donald Dickey	c	Milford, N. H.	Rd. H. 17
Tuttle, Leonard Wason	c	Milford, N. H.	Rd. H. 17
Virgin, Arthur Russell	s	Boston, Mass.	Rn. H. 21
Wallace, Arthur Lowell	c	Nashua, N. H.	9 College St.
Warden, John Bachop	s	Hanover, N. H.	8 Lebanon St.
Wentworth, Joseph	L	Sandwich, N. H.	C. H. 22
Weston, Henry Reuben	c	Windsor, Vt.	S. H. 11
Wood, John Hutchinson	s	Norwich, Vt.	E. H. 10
Woodman, James Brown	c	West Lebanon, N. H.	D. H. 7

SOPHOMORES

Aiken, George Benjamin Franklin	† s	Ida Grove, Ia.	44 College St.
Aldrich, Ephraim Fred	L	Littleton, N. H.	Rd. H. 14
Andrews, John Gilbert	s	Newton Centre, Mass.	Rn. H. 17
Bennett, Ralph Culver	L	Evanston, Ill.	1 N. Park St.
Berry, John Edward	c	Saco, Me.	C. H. 11
Bishop, Eliot	c	Brooklyn, N. Y.	Rn. H. 17
Bogue, Roswell Cutler	s	Chicago, Ill.	1 W. Wheelock St.
Bond, Bernard Quincy	L	Littleton, N. H.	9 College St.
Brown, Charles Ellsworth	c	Middleboro, Mass.	Wallace House 8
Brown, Warren Raymond	s	Centre Harbor, N. H.	Wallace House 9
Bryant, Clarence Edmund	L	Hyde Park, Mass.	H. H. 21
Buck, Arthur Ela	c	Manchester, N. H.	20 N. Main St.
Burleigh, David Paul	L	Plymouth, N. H.	T. H. 24

† Special course.

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Name	Course	Residence	Room
Butler, Walter Franklin	s	<i>Windsor, Vt.</i>	10 W. South St.
Butterfield, Claude Albert	c	<i>Perkinsville, Vt.</i>	D. H. 3
Calderwood, Edward Swazey	c	<i>Boston, Mass.</i>	25 S. Main St.
Carpenter, Frederick David	L	<i>Winchendon, Mass.</i>	W. H. 10
Cate, Harland Earle	c	<i>Haverhill, Mass.</i>	H. H. 10
Chase, Charles Richard	c	<i>Rochester, N. H.</i>	12 E. South St.
Cheever, William Whittle	s	<i>Nashua, N. H.</i>	H. H. 14
Clark, Eugene Francis	c	<i>Auburndale, Mass.</i>	10 W. South St.
Clark, Harry Sylvester	s	<i>Randolph, Vt.</i>	T. H. 15
Clark, James Stanford	c	<i>West Brattleboro, Vt.</i>	W. H. 18
Cobb, Gardner Nathan	c	<i>Strafford, Vt.</i>	23 S. Main St.
Cofran, Frank Eugene	s	<i>Hanover, N. H.</i>	5 S. Park St.
Colby, Joseph Rutherford	c	<i>Newport, Vt.</i>	Rn. H. 26
Cook, Harry Irving	s	<i>Woonsocket, R. I.</i>	D. H. 12
Cox, Channing Harris	c	<i>Concord, N. H.</i>	C. H. 4
Crone, Louis Leonard	L	<i>Lexington, Mass.</i>	48 S. Main St.
Cross, Ernest Samuel	c	<i>Exeter, N. H.</i>	S. H. 26
Crowell, John William	† s	<i>Salem, N. H.</i>	W. H. 21
Crowell, Mortimer Leggett	s	<i>Cleveland, O.</i>	H. H. 12
Cudworth, Frank Ezekiel	s	<i>Littleton, N. H.</i>	9 College St.
Currier, Elvin Ramson	† c	<i>Quechee, Vt.</i>	A. H. 4
Curtis, Harlan Fuller	L	<i>Killingworth, Conn.</i>	D. H. 9
Curtis, Walter Hibbard	† s	<i>Killingworth, Conn.</i>	D. H. 9
Davis, Waldo Trevor	c	<i>Clinton, Mass.</i>	Rd. H. 4
Dearborn, Selwyn Kenson	c	<i>Bristol, N. H.</i>	5 W. South St.
Denison, Guy Earls court	c	<i>Pittsfield, N. H.</i>	T. H. 23
Dillingham, Paul Shipman	c	<i>Waterbury, Vt.</i>	3 School St.
Doane, Royal Belden	s	<i>Beckley, Conn.</i>	W. H. 1
Dow, Eugene Madison	c	<i>Woodsville, N. H.</i>	9 College St.
Dowd, John Edwin	c	<i>Nashua, N. H.</i>	D. H. 12
Dunnington, Herbert Earl	L	<i>Manchester, N. H.</i>	S. H. 8
Eckstorm, Paul Frederick	L	<i>Chicago, Ill.</i>	48 S. Main St.
Theodore	s	<i>Worcester, Mass.</i>	K. K. K. House
Eddy, Ernest Justus	† s	<i>Everett, Mass.</i>	T. H. 16
Edwards, William Benjamin	s	<i>Cleveland, O.</i>	H. H. 12
Egbert, Theodore Baker	s	<i>Evansville, Ind.</i>	S. H. 8
Emery, Carroll Fletcher	s	<i>Hinsdale, N. H.</i>	T. H. 18
Fay, Clarence Dana	s	<i>Rindge, N. H.</i>	W. H. 10
Fletcher, Walter Charles	c	<i>Groveton, N. H.</i>	A. H. 6
Forbes, Ellsworth Irving	c	<i>Epsom, N. H.</i>	B. H. 3
Fowler, Clayton Holt			

† Special course.

Name	Course	Residence	Room
Fowler, Josiah Minot	c	Jamaica Plain, Mass.	13 W. Wheelock St.
French, George Franklin	c	Park Hill, N. H.	K. K. K. House
French, Irving Joseph	L	Park Hill, N. H.	K. K. K. House
Gentleman, Fred William	c	Portsmouth, N. H.	T. H. 8
George, John Hardy	s	Barre, Vt.	10 College St.
Gibbons, Edward Francis	c	Hingham, Mass.	H. H. 17
Gilmore, Harry Bassett	c	Haverhill, Mass.	C. H. 18
Gooch, Verson Woodman	s	Wakefield, Mass.	15 E. Wheelock St.
Grant, Perley Cummings	c	Auburn, N. H.	48 S. Main St.
Greer, Benjamin Brinton	L	Chicago, Ill.	H. H. 2
Gum, Andrew Thompson	† s	Frankford, Del.	1 Maple St.
Hall, Francis Chamberlain	s	Winchester, Mass.	9 College St.
Hall, Howard Warren	c	Shelburne Falls, Mass.	1 W. Wheelock St.
Hallman, Thomas Hart Benton	c	Royersford, Pa.	West Lebanon Road
Hancock, George Leverett	s	Franklin Falls, N. H.	Rn. H. 16
Hart, Charles Vincent	c	Horsham, Pa.	S. H. A.
Hartigan, Augustus Fisher	† L	Chicago, Ill.	C. H. 2
Haskell, Frederick White	s	Wakefield, Mass.	A. A. ♀. House
Hathaway, Harold Preble	s	Marblehead, Mass.	32 N. Main St.
Hersey, Arthur Urie	c	Hingham, Mass.	S. H. 28
Higgins, James Francis	L	Barre, Vt.	10 College St.
Hildreth, Charles Lewis	c	Westford, Mass.	T. H. 9
Hill, Frederick Lewis	c	Brockton, Mass.	S. H. 18
Hinckley, Albert Lucien	c	Osterville, Mass.	A. H. 4
Hopkins, Ernest Martin	c	North Uxbridge, Mass.	10 N. Main St.
Hovey, Herbert Washburne	L	St. Johnsbury, Vt.	1 W. Wheelock St.
Howe, James Arthur	s	Barre, Vt.	10 College St.
Hunter, Edgar Hayes	s	Somerville, Mass.	H. H. 20
Josselyn, Theodore Mason	s	Manchester, N. H.	K. K. K. House
Kimball, Charles Warren, Jr.	c	Penn Yan, N. Y.	C. H. 17
Kimball, James Howland	c	Hingham Centre, Mass.	H. H. 10
Lane, Adolph Buch	's	South Barre, Vt.	10 College St.
Leach, Eugene William	s	Franklin, N. H.	C. H. 19
Leach, Richard Edwards	c	Denver, Col.	West Lebanon Road
Leavens, Robert French	c	Boston, Mass.	C. H. 4
Lowe, Frank William	c	Boston, Mass.	S. H. 14
Lunt, Henry	c	New York, N. Y.	11 E. Wheelock St.
McCarten, James Edward	L	Lancaster, N. H.	Rd. H. 13
McGovern, Thomas Francis	s	Worcester, Mass.	H. H. 17

† Special course.

STUDENTS

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Name	Course	Residence	Room
McIntyre, James Bradford	s	Randolph, Vt.	S. H. 16
McMillan, Edward Neil	s	Boston, Mass.	H. H. 20
Marsh, Francis Beal	s	Brooklyn, N. Y.	E. H. 13
Marshall, Andrew	c	Boston, Mass.	K. K. K. House
Mason, Thomas Augustus	c	Northfield, Mass.	1 W. Wheelock St.
Merrill, Charles Henry	c	Kennebunkport, Me.	12 School St.
Merrill, Leon Orlando	c	Lower Gilmanton, N. H.	Wallace House 9
Morehouse, Theodore Chichester	c	Darien, Conn.	S. H. 24
Newcomb, Rush Frederick	s	Union Village, Vt.	13 E. Wheelock St.
Newhall, Frank Warren	s	Danvers, Mass.	W. H. 21
O'Leary, Laurence James	l	Lawrence, Mass.	W. H. 7
Orcutt, Julian DeWitt	c	Wollaston, Mass.	W. H. 7
Owen, Carl Maynard	c	Jacksonville, Ill.	2 Elm St.
Page, Donald Taylor	c	Manchester, N. H.	T. H. 24
Perkins, Locke McIndoe	s	Windsor, Vt.	S. H. 11
Phelps, Clarence Lewis	c	Quincy, Ill.	Rd. H. 5
Pierce, Frederick Ernest	† s	New Britain, Conn.	B. H. 2
Pingree, George Elmer	c	Georgetown, Mass.	A. A. ♣ House
Porter, Carlton Adelbert, Jr.	s	Auburn, N. Y.	48 S. Main St.
Prescott, Charles Irville	l	Meredith, N. H.	Rn. H. 24
Prescott, Philip Reginald	c	Westford, Mass.	8 College St.
Qua, Stanley Elroy	c	Lowell, Mass.	C. H. 12
Raphael, Joseph	c	Brooklyn, N. Y.	Rn. H. 15
Redman, Arthur Prescott	l	Lexington, Mass.	48 S. Main St.
Remsen, Thomas Richard	s	Brooklyn, N. Y.	C. H. 15
Robinson, George Edwin, Jr.	c	Boston, Mass.	S. H. 14
Rollins, Daniel Ashton	c	Washington, D. C.	Rood House 8
Rowe, Newell Dean	l	East Peacham, Vt.	Rn. H. 20
Rugg, Warren Fuller	s	Keene, N. H.	W. H. 18
Salinger, Leon Alfred	l	Rochester, N. H.	C. H. 3
Sampson, George Arthur	l	Middleboro, Mass.	S. H. 5
Scales, Robert Leighton	c	Dover, N. H.	1 W. Wheelock St.
Sibley, Harold Thorndike	c	Belfast, Me.	Rn. H. 4
Smith, Chesley Hartt	l	Plymouth, N. H.	T. H. 24
Smith, James Stuart	l	Chicago, Ill.	Rd. H. 16
Smith, Rolfe Wheelock	c	Leominster, Mass.	K. K. K. House
Snow, Hubert Marcy	c	Washington, D. C.	T. H. 9
Somes, George Frederick	c	Manchester, N. H.	H. H. 24
Stevens, Everett Mellen	s	Nashua, N. H.	H. H. 14

† Special course.

Name	Course	Residence	Room
Sykes, Arthur James	s	West Windsor, Vt.	17 W. Wheelock St.
Taylor, Henry LaForest	c	Haverhill, Mass.	C. H. 18
Thayer, Royal Bradford	c	Holbrook, Mass.	C. H. 16
True, Albert Lyman	s	Lancaster, Mass.	Rn. II. 26
VanderHoof, Douglas	L	Chicago, Ill.	Rn. II. 4
Varnum, Leavitt R J	c	Lowell, Mass.	The Wheelock
Wainwright, Edward Cowles	s	Hanover, N. H.	48 S. Main St.
Wallace, James Henry	s	Clinton, Mass.	Rd. II. 4
Ward, Richard, 3d	c	Lancaster, Mass.	C. H. 22
Warren, Edward Winslow	c	Marlboro, Mass.	Rn. II. 9
Washburne, Harry Osbert	c	Hartford, Vt.	S. H. 21
Watterson, Harvey	L	Louisville, Ky.	32 N. Main St.
Whelan, Charles	s	Weymouth, Mass.	S. H. 23
Whitaker, Earl Francis	s	Woonsocket, R. I.	3 College St.
Whitcomb, Rubert Henry	c	Winchendon, Mass.	S. H. 9
White, Nelson Davis	s	Winchendon, Mass.	Rn. H. 16
Wilson, John Edward	c	Natick, Mass.	C. H. 17
Wood, Theodore Newton	L	Middleboro, Mass.	S. H. 5
Woodman, Edwin LaForest	L	Rochester, N. H.	24 Lebanon St.
Young, Walter Stevens	s	Londonderry, N. H.	48 S. Main St.

FRESHMEN

Abbott, Guy Hammond	L	St. Johnsbury, Vt.	11 E. Wheelock St.
Adams, Almon Edgar	c	Littleton, N. H.	15 E. Wheelock St.
Adams, Herbert Carroll	s	Haverhill, Mass.	W. H. 12
Adrian, William	c	Winchester, Mass.	E. H. 7
Alling, Benjamin Willard	c	Kensington, Conn.	B. H. 2
Anguera, Herman Keidel Clifford de	s	Wakefield, Mass.	15 E. Wheelock St.
Archibald, Frank Stearns	s	Hinsdale, N. H.	E. H. 11
Archibald, Kenneth	c	Brockton, Mass.	Rd. H. 6
Baldwin, Ralph Dudley	c	Andover, Mass.	52 S. Main St.
Ballou, Harry Blanchard	c	Bristol, N. H.	5 W. South St.
Banning, Kendall	c	Walpole, N. H.	W. H. 11
Barnard, James Arthur	s	Nashua, N. H.	C. H. 8
Barnes, Thomas Louis	c	Waltham, Mass.	W. H. 13
Beaudry, George Hobbs	c	Marlboro, Mass.	H. H. 9
Blake, Walter Penniman	c	Webster, Mass.	Rd. H. 15
Brackett, Karl Starkey	s	Haverhill, Mass.	8 College St.
Bradley, Frederick Oliver	c	Evanston, Ill.	E. H. 7

STUDENTS

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Name	Course	Residence	Room
Briggs, Herbert Wilfred	c	<i>New York, N. Y.</i>	E. H. 6
Brown, Julius Arthur	c	<i>New York, N. Y.</i>	E. H. 6
Bunker, Frank Parker	c	<i>South Tamworth, N. H.</i>	D. H. 10
Cannell, John Weston	c	<i>Everett, Mass.</i>	C. H. 15
Carleton, Ralph Howard	c	<i>Haverhill, Mass.</i>	W. H. 22
Carley, Neale Severance	c	<i>Shelburne Falls, Mass.</i>	10 W. South St.
Chivers, Arthur Houston	c	<i>Amesbury, Mass.</i>	14 W. Wheelock St.
Cilley, Edgar Frank	c	<i>Lowell, Mass.</i>	T. H. 12
Cilley, Joseph	L	<i>Nottingham, N. H.</i>	Rd. H. 18
Cilley, Laburton Gale	c	<i>Kingston, N. H.</i>	8 Lebanon St.
Clark, Robert Browning	s	<i>Belmont, Mass.</i>	37 College St.
Clark, Robert Cushman	c	<i>West Brattleboro, Vt.</i>	W. H. 20
Closs, Harvey Wilbert	s	<i>Rose, N. Y.</i>	52 S. Main St.
Corse, Elton Lee	c	<i>Richford, Vt.</i>	E. H. 4
Craig, Willis Parker	L	<i>Marlow, N. H.</i>	W. H. 10
Cregg, Edward Francis	L	<i>Lawrence, Mass.</i>	W. H. 7
Cristy, Austin Phelps, Jr.	c	<i>Worcester, Mass.</i>	Rn. H. 6
Curtiss, Lee Clark	c	<i>New York, N. Y.</i>	10 W. South St.
Cushing, Daniel Thomas	c	<i>Quechee, Vt.</i>	Rd. H. 1
Dalrymple, Albert Herman	c	<i>Concord, N. H.</i>	W. H. 1
Davis, Carroll Worthen	s	<i>Post Mills, Vt.</i>	1 S. Park St.
Davis, Harry Arthur	s	<i>New Market, N. H.</i>	C. H. 7
Dearborn, Stanley Alex	c	<i>Wakefield, Mass.</i>	15 E. Wheelock St.
Dennett, Herbert Corydon	c	<i>Amesbury, Mass.</i>	5 W. Wheelock St.
Dorr, Percy Orrin	c	<i>Somersworth, N. H.</i>	S. H. 29
Dow, George Lincoln	c	<i>Cambridge, Mass.</i>	S. H. 15
Drake, James Frank	c	<i>Pittsfield, N. H.</i>	T. H. 23
Dudley, Charles Howard	† s	<i>Littleton, N. H.</i>	W. H. 9
Duggan, Francis John	s	<i>Worcester, Mass.</i>	32 N. Main St.
Eason, James	c	<i>Troy, N. Y.</i>	32 N. Main St.
Eaton, Arthur Leon	c	<i>Nashua, N. H.</i>	W. H. 2
Edson, Pearl Paine	c	<i>Worcester, Mass.</i>	19 S. Main St.
Elderkin, George Wicker	c	<i>Chicago, Ill.</i>	10 W. South St.
Elliott, Robert Henry	L	<i>Lowell, Mass.</i>	C. H. 12
Estabrook, Robert Francis	c	<i>Boston, Mass.</i>	S. H. 15
Farley, Carl Howard	s	<i>Nashua, N. H.</i>	11 E. Wheelock St.
Farr, Leslie Boynton	s	<i>Hanover, N. H.</i>	15 E. Wheelock St.
Farwell, Herman Waldo	c	<i>Keene, N. H.</i>	W. H. 23
Field, Arthur Sargent	c	<i>Chicago, Ill.</i>	T. H. 13
Fitzgerald, Amos Harold	L	<i>North Tewksbury, Mass.</i>	W. H. 12
Fitzpatrick, Louis Johnstone	c	<i>Portland, Me.</i>	S. H. 2

† Special course.

Name	Course	Residence	Room
Fletcher, Edward Jordan	† s	Portland, Me.	15 E. Wheelock St.
Fontaine, Archille	L	Wilder, Vt.	Wallace House 10
Freeman, Ross Manahan	s	Lebanon, N. H.	3 College St.
French, Frank Payson	s	Bedford, N. H.	9 College St.
Fullington, Christopher Chadwick	L	Johnson, Vt.	S. H. 21
Furber, Charles Harris	c	Hanover, N. H.	8 School St.
Gay, Charles Waterman	s	Quincy, Ill.	H. H. 13
Gilchrist, Robert Howard	s	South Hartford, N. Y.	W. H. 9
Gilman, John Sanborn	c	Farmington, N. H.	12 Lebanon St.
Goddard, Charles William	c	Boston, Mass.	T. H. 11
Goodell, Robert Hosea	c	South Framingham, Mass.	4 School St.
Graham, George Sellers	L	Everett, Mass.	Rood House 15
Griffin, John Francis	L	South Hadley Falls, Mass.	W. H. 8
Griffin, Philip Charles	c	Chicago, Ill.	48 S. Main St.
Griggs, Leland	c	Hanover, N. H.	9 Pleasant St.
Hall, Edwin Bowley	s	Haverhill, Mass.	C. H. 18
Hall, William Clark	L	Manchester, N. H.	Rd. H. 11
Harris, Howard Merton	c	Plaistow, N. H.	W. H. 22
Hartshorn, John Edward	s	Emmetsburg, Ia.	48 College St.
Harwood, Charles	c	Brooklyn, N. Y.	S. H. 3
Hatch, Roy Winthrop	c	Marshfield, Mass.	Rood House 15
Hayes, Allen Milliken	c	North Berwick, Me.	14 W. Wheelock St.
Hazen, Charles Dana	s	Hartford, Vt.	8 School St.
Hazen, Clarence Milton	c	West Lebanon, N. H.	Rood House 14
Hill, Harry Cyrus	s	Concord, N. H.	52 S. Main St.
Hill, Lawrence Richardson	L	Concord, N. H.	52 S. Main St.
Hill, William Carroll	L	Milford, N. H.	W. H. 2
Hines, Ezra Dodge	s	Danvers, Mass.	5 College St.
Hoke, George Edward	L	Herndon, Pa.	3 Pleasant St.
Holmes, Joseph Edwin	c	Arlington Heights, Mass.	S. H. 23
Holt, Clarence Blake	c	Portland, Me.	Rn. H. 25
Houghton, Arthur Stillman	L	Worcester, Mass.	12 Lebanon St.
Howard, William, Jr.	L	Brooklyn, N. Y.	S. H. 3
Howard, William Hanson, Jr.	c	Lowell, Mass.	15 E. Wheelock St.
Hubbard, George Morrison	s	New Britain, Conn.	B. H. 2
Hubbard, Thomas Parker	c	West Boxford, Mass.	21 Allen St.
Huntington, James Lincoln	c	Hanover, N. H.	19 S. Main St.
Irvin, Arba J	L	Chicago, Ill.	10 W. South St.
Keniston, Davis Baker, Jr	c	Plymouth, N. H.	13 E. Wheelock St.
Kennedy, Alfred Rufus	L	Lowell, Mass.	T. H. 12

† Special course.

STUDENTS

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Name	Course	Residence	Room
Kennedy, Mortimer Bailey	L	Peoria, Ill.	H. H. 6
Kimball, Louis Maurice	C	North Haverhill, N. H.	8 School St.
Kirchberger, Richard Siegfried	S	Chicago, Ill.	Rn. H. 7
Kircher, Charles Arthur	L	Webster, N. Y.	E. H. 8
Kivel, Frank	C	Dover, N. H.	Rn. H. 18
Ladd, Carey Prentis	C	Greenfield, Mass.	19 N. Main St.
Lamprey, David Clinton, Jr.	L	Manchester, N. H.	Rd. H. 11
Lamprey, Harold Irving	C	North Hampton, N. H.	27 S. Main St.
Larned, Richard Montgomery, Jr.	C	Newtonville, Mass.	9 College St.
Leach, Homer Zenas	C	Waterville, Vt.	D. H. 2
Leach, Robert Milton	L	Franklin Falls, N. H.	C. H. 19
Leahy, Maurice Joseph	L	South Hadley Falls, Mass.	W. H. 8
Lena, William James	S	Lawrence, Mass.	W. H. 7
Luce, Barnard Coffin	S	Vineyard Haven, Mass.	E. H. 4
Lyons, Dennis Francis	C	Danvers, Mass.	W. H. 15
McCaughern, John Casey	S	Hinsdale, N. H.	T. H. 18
McCurdy, Sidney Morrill	C	Andover, Mass.	H. H. 18
McKinnon, Allan Parmalee	L	Boston, Mass.	Rn. H. 21
McKinnon, Harry Walter	L	Bellows Falls, Vt.	W. H. 11
Mahoney, William Henry	L	Miller's Falls, Mass.	D. H. 1
Maley, John Henry	L	Newport, N. H.	T. H. 20
Mandel, Eugene David	S	Chicago, Ill.	Rn. H. 11
Martin, Nelson Eugene	C	Cheshire, Mass.	D. H. 2
Merrill, Arthur Hodges	C	Portland, Me.	Rn. H. 27
Merrill, Roy Stanley	C	Shelburne Falls, Mass.	10 W. South St.
Merrill, Thaddeus Jasper	L	Aurora, Ill.	32 N. Main St.
Mooney, Clarence Dana	C	Newport, N. H.	H. H. 11
Moore, Frank Cochrane	C	Goffstown, N. H.	W. H. 15
Morse, Kenneth Lee	C	Hanover, N. H.	25 W. Wheelock St.
Munroe, James Albert	C	Jamaica Plain, Mass.	27 S. Main St.
Murray, William Henry	C	South Lancaster, Mass.	E. H. 12
Newman, George Willard	S	Keene, N. H.	W. H. 23
Newman, Sewall Edwin	S	Beverly, Mass.	E. H. 5
Norton, Lyman Freeman	C	Dover, N. H.	1 S. Park St.
O'Connor, John Christopher	S	Bradford, Mass.	C. H. 14
Osgood, Fred Wheeler	S	Fitchburg, Mass.	37 S. Main St.
Paine, Raymond Elder	L	Boston, Mass.	T. H. 19
Parker, Harold Francis	L	Reading, Mass.	48 College St.
Parker, Herbert Gooding	C	Worcester, Mass.	19 S. Main St.
Parry, Augustus Newell, Jr.	S	Amesbury, Mass.	1 W. Wheelock St.

Name	Course	Residence	Room
Passage, George Azel	c	<i>St. Paul, Minn.</i>	T. H. 13
Patrell, Arthur Ellis	s	<i>Wilder, Vt.</i>	Wilder, Vt.
Pattee, George Kynett	c	<i>Bristol, N. H.</i>	5 W. South St.
Pecker, Ralph Thornton	s	<i>Clifton, Mass.</i>	E. H. 1
Peckham, Reuben	L	<i>Troy, N. Y.</i>	32 N. Main St.
Pember, Karl Albright	c	<i>Woodstock, Vt.</i>	48 College St.
Perkins, Oscar Houston	s	<i>Danvers, Mass.</i>	37 N. Main St.
Perkins, Moses Bradstreet	c	<i>Salem, Mass.</i>	5 Allen St.
Perley, Bertram Proctor	s	<i>Danvers, Mass.</i>	37 N. Main St.
Peters, William Philip	L	<i>Lawrence, Mass.</i>	W. H. 5
Pillsbury, Henry Church	c	<i>Lowell, Mass.</i>	Rd. H. 2
Plumer, Harold Edward	s	<i>Rollinsford, N. H.</i>	1 S. Park St.
Porter, John Endicott	s	<i>Danvers, Mass.</i>	W. H. 13
Pratt, David Damon	L	<i>South Easton, Mass.</i>	8 College St.
Rice, Winfield Lawrence	c	<i>Boothbay Harbor, Me.</i>	19 N. Main St.
Riley, Francis Bennett	s	<i>Chicago, Ill.</i>	Rd. H. 16
Rowe, Otis Arthur	c	<i>Gilford, N. H.</i>	D. H. 10
Ruggles, Arthur Hiler	c	<i>Hanover, N. H.</i>	21 N. Main St.
Sanborn, Harvey Beede	c	<i>Gonic, N. H.</i>	8 College St.
Sanborn, Hugh Montgomery	c	<i>Henniker, N. H.</i>	5 College St.
Sawyer, Enos Kittredge	c	<i>Franklin Falls, N. H.</i>	Rn. H. 25
Sayward, Harry Morton	c	<i>Ipswich, Mass.</i>	5 College St.
Schilling, Albert Henry	s	<i>New Britain, Conn.</i>	H. H. 7
Smith, Cyril Austin	c	<i>Middleboro, Mass.</i>	Wallace House 2
Smith, Robert Holbrook	c	<i>St. Johnsbury, Vt.</i>	11 E. Wheelock St.
Soper, Ralph Carroll	c	<i>South Royalton, Vt.</i>	25 S. Main St.
Sprague, Eugene Baxter	s	<i>Hartford, Vt.</i>	D. H. 5
Stanley, Arthur Penrhyn	s	<i>Bolsters' Mills, Me.</i>	T. H. 3
Stanton, Fred Caswell	s	<i>Vineyard Haven, Mass.</i>	E. H. 5
Stevens, Benjamin Scott	c	<i>North Haven, Conn.</i>	9 College St.
Stone, Howard Perley	c	<i>Haverhill, Mass.</i>	W. H. 24
Studwell, Chester Arthur	s	<i>Port Chester, N. Y.</i>	48 College St.
Tappan, Crosby	s	<i>Sharon, Mass.</i>	H. H. 11
Taylor, Horace Scales	L	<i>Wollaston, Mass.</i>	Rd. H. 18
Thompson, Philip Pickering	c	<i>Portland, Me.</i>	13 E. Wheelock St.
Thompson, William Bisbee	L	<i>Everett, Mass.</i>	D. H. 1
Tozzer, Arthur Clarence	s	<i>Lynn, Mass.</i>	E. H. 1
Tracy, Henry Carroll	c	<i>Hartford, Vt.</i>	14 Lebanon St.
Tuttle, Arthur Pearl	c	<i>Andover, Mass.</i>	52 S. Main St.
Varney, Lawrence Delano	s	<i>Dover, N. H.</i>	1 W. Wheelock St.
Walker, John	s	<i>New Britain, Conn.</i>	H. H. 7
Warner, Harry Eugene	c	<i>Brooklyn, N. Y.</i>	11 E. Wheelock St.

STUDENTS

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Name	Course	Residence	Room
Warwick, George, Jr.	c	Stoughton, Mass.	19 N. Main St.
Watson, Ernest Bradlee	c	Dorchester, Mass.	T. H. 19
Wells, Albert Warner	s	Quincy, Ill.	H. H. 13
Whitcher, Burr Royce	c	Woodsville, N. H.	9 College St.
Winslow, Asa Irving	c	Lakeville, Mass.	Wallace House 2
Wright, Charles Allen	c	Chicago, Ill.	1 W. Wheelock St.
Wright, Joseph Garfield	c	Lowell, Mass.	Rd. H. 2

SUMMARY

GRADUATE STUDENTS	.	.	.	.	.	.	.	4
SENIORS	.	.	.	.	.	.	.	107
JUNIORS	.	.	.	.	.	.	.	132
SOPHOMORES	.	.	.	.	.	.	.	151
FRESHMEN	.	.	.	.	.	.	.	187
TOTAL	.	.	.	.	.	.	.	581

DISTRIBUTION BY STATES

MASSACHUSETTS	.	.	212	DISTRICT OF COLUMBIA	.	2
NEW HAMPSHIRE	.	.	188	IOWA	.	2
VERMONT	.	.	66	MINNESOTA	.	2
ILLINOIS	.	.	29	COLORADO	.	1
MAINE	.	.	25	DELAWARE	.	1
NEW YORK	.	.	25	INDIANA	.	1
CONNECTICUT	.	.	14	KENTUCKY	.	1
OHIO	.	.	3	MICHIGAN	.	1
PENNSYLVANIA	.	.	3	NEW JERSEY	.	1
RHODE ISLAND	.	.	3	JAPAN	.	1

MEDICAL STUDENTS

FOURTH YEAR

Name	Residence	Room
Baketel, Roy Vincent	<i>Manchester, N. H.</i>	29 Allen St.
Beckford, Henry Shedd	<i>Laconia, N. H.</i>	14 Lebanon St.
Berwick, James Roderick	<i>Lawrence, Mass.</i>	Medical Building
Brown, Fred Nathan	<i>Providence, R. I.</i>	18 Lebanon St.
Chesley, Verner Lewis	<i>Manchester, N. H.</i>	Norwich, Vt.
DeGross, John Henry	<i>Manchester, N. H.</i>	Hospital
Foss, George Herbert	<i>Pittsfield, N. H.</i>	7 W. South St.
Furnel, Guy Goodwin, A.M.	<i>Wilton, Me.</i>	9 College St.
Healy, Thomas Raymond	<i>Newburyport, Mass.</i>	5 W. Wheelock St.
Hertzberg, George Robert Reinhold	<i>Stamford, Conn.</i>	The Wheelock
Hoitt, George Barnard	<i>Thornton's Ferry, N. H.</i>	37 S. Main St.
Jenness, Burt Franklin	<i>Bradford, Mass.</i>	25 Lebanon St.
Kennedy, James Edward	<i>Bristol, Conn.</i>	7 Maple St.
Knight, Howard Webster	<i>Saco, Me.</i>	Norwich, Vt.
Landman, Elbert Alonzo	<i>Townshend, Vt.</i>	25 Lebanon St.
Locke, George Scott, Jr.	<i>Concord, N. H.</i>	Lowell, Mass.
Lord, Charles Edward Dimmock, A.B.	<i>Biddeford, Me.</i>	The Wheelock
McLaughlin, Patrick William	<i>Clinton, Mass.</i>	3 Pleasant St.
Miller, Samuel Osgood	<i>Springfield, Mass.</i>	11 Pleasant St.
Parker, Fred Eugene, A.B.	<i>Providence, R. I.</i>	The Wheelock
Pease, Charles Wood	<i>Amherst, Mass.</i>	19 Maple St.
Pratt, Harry Summer	<i>Bethlehem, N. H.</i>	Norwich, Vt.
Robinson, Fred Israel	<i>Lawrence, Mass.</i>	Norwich, Vt.
Rowe, Arthur James	<i>South Bumstead, N. H.</i>	37 S. Main St.
Rowe, Walter Cilley	<i>South Bumstead, N. H.</i>	37 S. Main St.
Schereschewsky, Joseph Williams, A.B.	<i>Hanover, N. H.</i>	34 N. Main St.
Stevens, John Frederick	<i>Sullivan, Me.</i>	The Wheelock
Tuxbury, Fred Peaslee, A.M.	<i>Amesbury, Mass.</i>	25 S. Main St.
Webster, George	<i>Brookfield, Mass.</i>	14 Lebanon St.
Work, Manly William	<i>Peterboro, N. H.</i>	52 S. Main St.

THIRD YEAR

Name	Residence	Room
Abbott, Charles Benjamin	<i>Bradford, N. H.</i>	14 Lebanon St.
Albright, Clifford Brandt	<i>Williamson, N. Y.</i>	12 Lebanon St.
Ballard, Clarence Pressey	<i>West Concord, N. H.</i>	3 College St.
Barker, Ralph Higgins	<i>Pittsfield, N. H.</i>	25 Lebanon St.
Barrows, Elmer Ashley	<i>South Strafford, Vt.</i>	44 Lebanon St.
Bartlett, Percy, A.B.	<i>Ellsworth, Me.</i>	Medical Building
Beckwith, Henry Witter	<i>East Lyme, Conn.</i>	Medical Building
Bessey, Earl Emerson	<i>Waterville, Me.</i>	25 Lebanon St.
Black, James Stanislaus	<i>Nashua, N. H.</i>	7 Maple St.
Brownell, Roger William	<i>Bristol, R. I.</i>	16 Maple St.
Buckley, James Joseph	<i>Dover, N. H.</i>	48 S. Main St.
Carr, Burt Wilbur, A.B.	<i>Pittsfield, N. H.</i>	Norwich, Vt.
Clark, Edward James	<i>Lowell, Mass.</i>	10 W. South St.
Decker, Frederick Stanford	<i>Little Falls, N. Y.</i>	7 W. South St.
Elliott, William Thomas	<i>Rumford, Me.</i>	37 S. Main St.
Goodwin, Harold Carl	<i>Amesbury, Mass.</i>	17 Lebanon St.
Granger, Eugene Norton	<i>Harrisville, R. I.</i>	7 Pleasant St.
Huckins, Theron Howard, B.L.	<i>Plymouth, N. H.</i>	29 Allen St.
Hurd, Benjamin Porter	<i>Unity, Me.</i>	44 Lebanon St.
Ladd, Joseph Howard	<i>Northfield, Vt.</i>	1 Maynard St.
Ladd, Samuel Tilden	<i>Epping, N. H.</i>	7 Maple St.
Leathers, Enoch	<i>Hanover, N. H.</i>	Rood House
McCabe, Edward Louis	<i>Glendale, R. I.</i>	7 Pleasant St.
Meserve, John Shackford, B.S.	<i>Dover, N. H.</i>	25 S. Main St.
Norton, John Blakely, B.S.	<i>Middletown Springs, Vt.</i>	9 College St.
Paine, Robert Child	<i>East Woodstock, Conn.</i>	48 S. Main St.
Pearl, Leonard Silas	<i>Concord, N. H.</i>	44 Lebanon St.
Richards, Carl Taylor, B.L.	<i>Hinsdale, N. H.</i>	29 Allen St.
Rubert, Kennedy Furlong, A.B.	<i>Owego, N. Y.</i>	10 N. Main St.
Rumrill, Clinton Joseph	<i>South Strafford, Vt.</i>	10 Maple St.
Russell, Walter Burton	<i>Springfield, Mass.</i>	25 Lebanon St.
Sanborn, Byron, A.B.	<i>Loudon Centre, N. H.</i>	23 H. H.
Sargent, Elmer Ulysses	<i>Belmont, N. H.</i>	12 E. South St.
Sleeper, Carl Raymond	<i>Orange, Mass.</i>	18 Lebanon St.
Smith, Harvey Wilbur	<i>Hampden, Me.</i>	44 Lebanon St.
Smith, William Eugene	<i>Post Mills, Vt.</i>	29 Allen St.
Walker, Charles Sidney	<i>Harrison, Me.</i>	Medical Building
Ward, Roy Joslyn, A.B.	<i>Hanover, N. H.</i>	17 E. Wheelock St.
West, Hiram Bachelder	<i>Contoocook, N. H.</i>	2 Maynard St.

SECOND YEAR

Name	Residence	Room
Bakeman, Frank Albert	<i>Chelsea, Mass.</i>	T. H. 2
Bates, Willard Asa	<i>Waterville, Me.</i>	Norwich, Vt.
Bisbee, Walter Griswold	<i>Springfield, Vt.</i>	25 Lebanon St.
Bryant, John Edmund	<i>Barton, Vt.</i>	14 School St.
Campbell, John Lincoln	<i>Rochester, Vt.</i>	3 Pleasant St.
Connor, Michael Edward	<i>Amesbury, Mass.</i>	48 S. Main St.
Coolidge, John Wesley	<i>Hancock, N. H.</i>	15 School St.
Dearborn, Thomas Hart Benton	<i>Milford, N. H.</i>	Rn. H. 30
Hatch, Laurence Brown	<i>St. Johnsbury, Vt.</i>	31 S. Main St.
Hatch, William Henry	<i>Lowell, Mass.</i>	10 Lebanon St.
Hills, Charles Everett	<i>Hanover, N. H.</i>	10 Maple St.
Hoag, Albert Buffum	<i>North Sandwich, N. H.</i>	46 Lebanon St.
Hunt, Wilson Eugene	<i>Loudon, N. H.</i>	23 H. H.
Lally, Francis Henry	<i>Worcester, Mass.</i>	10 Lebanon St.
Lowd, Harry Mosher	<i>Swampscott, Mass.</i>	25 Lebanon St.
Mackenzie, Nicholas Young		
Bradford	<i>Ellsworth, Me.</i>	31 S. Main St.
Marble, Charles Ebenezer	<i>Hampstead, N. H.</i>	48 S. Main St.
Marshall, Augustus Thompson	<i>Roxbury, Mass.</i>	5 College St.
McBride, John	<i>Barnard, Vt.</i>	11 Pleasant St.
Monahan, David Henry, A.B.	<i>Southington, Conn.</i>	The Wheelock
Morse, Frank Wilmont	<i>Sudbury, Mass.</i>	7 W. South St.
Nelson, David	<i>Boston, Mass.</i>	19 Maple St.
Proctor, John Harvey, A.M.	<i>Hanover, N. H.</i>	10 N. Main St.
Randall, William Joseph, B.L.	<i>Chelsea, Mass.</i>	34 N. Main St.
Scannell, Edward John	<i>West Lebanon, N. H.</i>	D. H. 11
Smith, Leonard Clarence	<i>Brewer, Me.</i>	48 S. Main St.
Tabor, Edward Orlando, B.S.	<i>Hanover, N. H.</i>	3 School St.
Toye, John Ernest	<i>West Chelmsford, Mass.</i>	Medical Building
Watson, Maurice, A.B.	<i>Manchester, N. H.</i>	1 W. Wheelock St.
Whiteley, William Smith	<i>Eighty-four, Pa.</i>	4 College St.
Whitmore, Albra	<i>Hanover, N. H.</i>	Rood House
Worthen, Eugene Mark	<i>Holderness, N. H.</i>	14 School St.
Wyman, Harry Monroe	<i>Hubbardston, Mass.</i>	3 Pleasant St.

FIRST YEAR

Allen, Edwin Lawrence	<i>Limerick, Me.</i>	15 E. Wheelock St.
Bonney, Charles Walter	<i>Hanover, N. H.</i>	24 Lebanon St.
Boston, Albert Warren	<i>North Berwick, Me.</i>	18 S. Main St.

Name	Residence	Room
Bugbee, Locke Harwood	<i>North Pomfret, Vt.</i>	5 W. Wheelock St.
Burrill, Charles Rodney	<i>Ellsworth, Me.</i>	19 Maple St.
Chase, Theodore Woolsey	<i>Hanover, N. H.</i>	38 College St.
Cowern, Ernest William	<i>Contoocook, N. H.</i>	1 Maynard St.
Cullen, James Augustine	<i>Lonsdale, R. I.</i>	21 School St.
Cushman, Charles Elliot	<i>Randolph, Vt.</i>	S. H. 1
Dearborn, Henry Hale	<i>Milford, N. H.</i>	Rn. H. 30
Delaney, Edward James	<i>Nashua, N. H.</i>	21 School St.
Drake, Percy Greenough	<i>Rye, N. H.</i>	1 W. Wheelock St.
Folsom, Charles Albert	<i>West Epping, N. H.</i>	18 S. Main St.
Hill, Ernest Linwood	<i>West Townsend, Mass.</i>	44 Lebanon St.
Hopkins, Arthur Warren	<i>Manchester, N. H.</i>	Wallace House 5
Hyatt, Edwin Arnold	<i>Spragueville, N. Y.</i>	Rn. H. 12
Jordan, Wesley William	<i>Plainfield, N. H.</i>	1 W. Wheelock St.
Kiely, Francis Patrick	<i>Naugatuck, Conn.</i>	21 School St.
Leavitt, Alvin Benton	<i>Tilton, N. H.</i>	D. H. 8
Newhall, Alden Russell	<i>Lynn, Mass.</i>	52 S. Main St.
Parker, David Woodbury	<i>Goffstown, N. H.</i>	22 N. Main St.
Powers, William Joseph	<i>Worcester, Mass.</i>	21 School St.
Sanborn, Frederick Rodney	<i>Somersworth, N. H.</i>	11 S. H.
Sewall, Millard Freeman	<i>York Village, Me.</i>	1 W. Wheelock St.
Tootell, Albert Ballard	<i>Salem, N. H.</i>	W. H. 19
Turner, George Henry, Jr.	<i>Portland, Me.</i>	5 College St.
Wilder, Ralph Spencer	<i>Winchendon, Mass.</i>	D. H. 8
Woodward, Walter Carleton	<i>Randolph, Vt.</i>	T. H. 15
Yeaton, George William	<i>Concord, N. H.</i>	52 S. Main St.

SUMMARY

FOURTH YEAR	.	.	.	.	.	.	.	30
THIRD YEAR	.	.	.	.	.	.	.	39
SECOND YEAR	.	.	.	.	.	.	.	33
FIRST YEAR	.	.	.	.	.	.	.	29
TOTAL	.	.	.	.	.	.	.	131

THAYER SCHOOL STUDENTS

FIRST CLASS

The first class, consisting of seven members, has leave of absence for a year.

SECOND CLASS

Name	Residence	Room
French, John McQuesten	<i>West Lebanon, N. H.</i>	D. H. 11
Galusha, Albert Leet	<i>Nashua, N. H.</i>	Thayer Building
Greenwood, Albert Henry	<i>Lawrence, Mass.</i>	A. Δ. Φ. House
Hutchinson, William Loveland	<i>Norwich, Vt.</i>	Norwich, Vt.
Oakes, Luther Stevens	<i>Windsor, Vt.</i>	A. Δ. Φ. House
Sanborn, John Leonard	<i>Hyde Park, Mass.</i>	C. & G. House
Smith, Samuel Justin	<i>Windsor, Vt.</i>	Thayer Building
Wardle, Edward Beaumont	<i>Slatersville, R. I.</i>	D. H. 11
Watson, Herbert Leslie	<i>Manchester, N. H.</i>	W. H. 17
Whittier, Thomas Tupper	<i>North Berwick, Me.</i>	25 S. Main St.
Winchester, Philip Harold	<i>Portland, Me.</i>	Observatory

SUMMARY OF STUDENTS

DARTMOUTH COLLEGE	581
MEDICAL SCHOOL	131
THAYER SCHOOL	11
TOTAL (deducting for names inserted twice) . .	694

DISTRIBUTION BY STATES

MASSACHUSETTS	239	DISTRICT OF COLUMBIA	2
NEW HAMPSHIRE	231	IOWA	2
VERMONT	78	MINNESOTA	2
MAINE	40	COLORADO	1
ILLINOIS	29	DELAWARE	1
NEW YORK	28	INDIANA	1
CONNECTICUT	20	KENTUCKY	1
RHODE ISLAND	9	MICHIGAN	1
PENNSYLVANIA	4	NEW JERSEY	1
OHIO	3	JAPAN	1

ABBREVIATIONS

A. H.	Allen Hall	H. H.	Hallgarten Hall
B. H.	Bartlett Hall	Rd. H.	Reed Hall
C. H.	Crosby House	Rn. H.	Richardson Hall
D. H.	Dartmouth Hall	S. H.	Sanborn House
E. H.	Elm House	T. H.	Thornton Hall
W. H.	Wentworth Hall		

HONORS AND PRIZES

RUFUS CHOATE SCHOLARS

SENIORS — Kenneth Beal, James Parmelee Richardson, Lucius Everett Varney.

JUNIORS — Roger Allen Dunlap, Harold Ripley Hastings, Frank Martin Howe, Homer Eaton Keyes, Franklin Crocker Lewis, Harry LeBaron Sampson.

SOPHOMORES — Arthur Ela Buck, Eugene Madison Dow, Robert French Leavens, Stanley Elroy Qua, Arthur Prescott Redman.

FINAL HONORS

SENIORS

GREEK AND MATHEMATICS — Walter Sidney Adams.

SPECIAL HONORS

SENIORS

GREEK, MATHEMATICS, AND ASTRONOMY — Walter Sidney Adams.

GERMAN — Ernest Paris Seelman.

HONORABLE MENTION

SENIORS

ASTRONOMY — Walter Sidney Adams and Frederic Pomeroy Lord.

PHILOSOPHY — Fletcher Harper Swift.

POLITICAL SCIENCE — Chester Frederick Williams.

JUNIORS

ENGLISH — Gordon Hall Gerould and James Parmelee Richardson.

GERMAN — Kanichi Asakawa, William Thompson Atwood, Kenneth Beal, Earl Eastman, and James Parmelee Richardson.

ZOOLOGY — David Woodbury Parker and Raymond Pearl.

SOPHOMORES

FRENCH — Homer Eaton Keyes and Leon Burr Richardson.

MATHEMATICS — Fred Herbert Hadlock, Harold Ripley Hastings, Frank Martin Howe, Franklin Crocker Lewis, Charles Albert Proctor, and Frank Dana Sears.

HISTORY — Guy Andrews Ham, Frank Martin Howe, Homer Eaton Keyes, and Harry LeBaron Sampson.

FRESHMEN

GREEK — Arthur Ela Buck, Josiah Minot Fowler, George Franklin French, Robert French Leavens, and Stanley Elroy Qua.

LATIN — Eugene Madison Dow and Andrew Marshall.

GRAPHICS — Royal Belden Doane.

PRIZES

Grimes — English Composition — Seniors.

First Prize — BRADLEY CARLETON RODGERS.

Second Prize — FLETCHER HARPER SWIFT.

Lockwood — English Composition — Juniors.

First Prize — GORDON HALL GEROULD.

Second Prize — DANIEL FORD.

Pacific Coast Alumni Association — American Literature — Sophomores.

HOMER EATON KEYES.

Atherton — Greek — Juniors.

First Prize — JAMES PARMELEE RICHARDSON.

Second Prize — MOSES MOTLEY SARGEANT.

Class of 1846 — Latin — Juniors.

First Prize — LOUIS PAUL BENEZET.

Second Prize — No award.

Thayer — Mathematics — Sophomores.

First Prize — CHARLES ALBERT PROCTOR.

Second Prize — FRANK DANA SEARS.

*Pray — Modern Languages — Seniors.**German* — ERNEST PARIS SEELMAN.*French* — No award.*Grimes — General Improvement — Seniors.*

HARRY WINFRED GOODALL.

*Smith — Extemporaneous Debate — Seniors.**First Prize* — JAMES RUSSELL CHANDLER.*Second Prize* — GEORGE FRANCIS SMITH.*Rollins — Original Orations — Juniors and Sophomores.**First Prize* — HAWLEY BARNARD CHASE (Junior).*Second Prize* — GUY ANDREWS HAM (Sophomore).*Rollins and Nettleton — Oratory — Juniors, Sophomores, and Freshmen.**First Prize* — NELSON PIERCE BROWN (Junior).*Second Prize* — GUY ANDREWS HAM (Sophomore).*Third Prize* — ROBERT FRENCH LEAVENS (Freshman).*Spalding — Mechanical Drawing — Juniors, Chandler Scientific Course.**First Prize* — PHILIP HAROLD WINCHESTER.*Second Prize* — HERBERT LESLIE WATSON.*Jesup — Botany — Juniors and Sophomores.*

JUNIORS — WILLIAM WESLEY JORDAN.

SOPHOMORES — *First Prize* — ARTHUR TAYLOR DOWNING.*Second Prize* — FREEMAN CORSON.*Andrews — Free-hand Drawing — Freshman, Chandler Scientific Course.**First Prize* — EDGAR HAYES HUNTER.*Second Prize* — ROYAL BELDEN DOANE.

DEGREES CONFERRED IN COURSE

BACHELORS OF ARTS

* Adams, Walter Sidney	† Lord, Frederic Pomeroy
Bartlett, Joseph Warren	Marden, Robert Fiske
Batchelder, Edward Carpenter	Middleton, William Howard
Bennis, Frederick Vucassovich	Mitchell, William Hugh
Blake, Herbert Willard	Montgomery, Charles Dempster
Bulfinch, Chester Warren	Moulton, Sherman Roberts
Carney, Joseph Patrick	Patey, Hedley Philip
Carr, Charles Everett	Peck, Robert Earle
Carter, Charles Reuel	Rodgers, Bradley Carleton
Chandler, James Russell	Sawin, Fred Dana
Clark, Charles Ernest	Smith, George Francis
Connelly, John Marcus	Smith, Melvin Wilbur
Crane, Ephraim Hitchcock	Snow, Everard Walker
Crowley, Henry Denis	Spring, John Roland
French, Ernest Eugene	Swift, Fletcher Harper
Gleason, Ernest Morton	Turner, Warren Delmer
Goodall, Harry Winfred	Walker, Clarence Clayton
Green, George Abbott	Williams, Chester Frederick
Leggett, Frederic Hamilton	

BACHELORS OF LETTERS

Duncan, Charles	Perkins, Frederick Winthrop
Eckstorm, John Bernard Christian	Pope, Frederick Seth, Jr.
Griffin, Guy Clement	Robbert, Frederick William
Jones, Albert Dodge	† Seelman, Ernest Paris
Lockwood, George	Sibley, Clarence Everett
Macandrew, David Carr	

* Summa cum laude.

† Magna cum laude.

‡ Cum laude.

BACHELORS OF SCIENCE

Anderson, John Albert	Littlefield, Myron George
Aubey, Israel	Marcy, Richard
Belknap, James Lyman	Moody, Seth Enoch
Clark, Harry Wallace	Nichols, Harrison Lincoln
Farley, George Louis	Nolan, George Henry
Gary, Guy Lewis	Patterson, Allan Bouton
Gibbs, Frederick Azro	Sumner, Walter Taylor
Gilman, John Alfred	Tabor, Edward Orlando
Hewes, Lawrence Ilsley	Tabor, Oscar Persons, Jr.
Kimball, William Albert	

Towne, Francis Laban, 1856

Clark, Frank Gay, 1873

CIVIL ENGINEERS (THAYER SCHOOL)

Averill, James Leland	Ham, William Hale
Balch, William Hoyt	Mann, James Laroy
Brown, Maurice Fritchley	

DOCTORS OF MEDICINE

Ames, Owen Abner Buck	Lawlor, Richard Henry
Baker, Benjamin Ward	McLaury, Daniel Henry
Beaton, Alexander Angus	Martin, Harry Charles
Beaudoin-Bennett, Mortimer	Merrill, Walter Emery
Roland	Northrop, Clarence Clark
Burr, Clarence Harvey	Platts, Harry Stearns
Carroll, John Philip	Provost, Azarie Moise Joseph, A.B.
Chesley, Harry Oscar	Purinton, Watson Smith
Crittenden, Samuel Wright, Ph.G.	Quinn, Charles Henry
Crosby, William Pierce	Wheeler, John, A.B.
Evans, Frank Webster	Wilson, George Gordon Byron
Kingsford, Howard Nelson	Wims, Dennis Patrick

DOCTOR OF PHILOSOPHY

Richardson, Charles Henry, B.A., 1892, M.A., 1895.

HONORARY DEGREES

MASTERS OF ARTS

Daniel Chester French
John Freeman Kilton

Robert James Peaslee
Benjamin Hyde Sanborn

DOCTORS OF DIVINITY

Harry Pinneo Dewey (Williams College 1884)
James Horace Pettee (1873)

DOCTOR OF LAWS

William Martin Chase (1858)

DARTMOUTH COLLEGE

FACULTY

WILLIAM JEWETT TUCKER, PRESIDENT.

JOHN KING LORD, ACTING PRESIDENT OF THE FACULTY IN
ABSENCE OF THE PRESIDENT, *Daniel Webster Professor of
Latin.*

CHARLES FRANKLIN EMERSON, DEAN OF THE FACULTY,
Appleton Professor of Physics.

*SAMUEL COLCORD BARTLETT, *Lecturer on the Bible and
its Relation to Science and History on the Phillips Foundation.*

HENRY GRISWOLD JESUP, *Professor of Botany on the
Chandler Foundation.*

CHARLES HENRY HITCHCOCK, *Hall Professor of Geology
and Mineralogy.*

GEORGE PUTNAM HUNTINGTON, *Instructor in Hebrew.*

GABRIEL CAMPBELL, *Stone Professor of Intellectual and
Moral Philosophy.*

FRANK ASBURY SHERMAN, *Professor of Mathematics on
the Chandler Foundation.*

CHARLES FRANCIS RICHARDSON, *Winkley Professor of
English.*

MARVIN DAVIS BISBEE, *Librarian and Professor of Bibliog-
raphy.*

THOMAS WILSON DORR WORTHEN, *Cheney Professor of
Mathematics.*

EDWIN JULIUS BARTLETT, *New Hampshire Professor of
Chemistry.*

* Deceased November 16, 1898.

JAMES FAIRBANKS COLBY, *Parker Professor of Law and Political Science.*

JOHN VOSE HAZEN, *Woodman Professor of Civil Engineering and Graphics on the Chandler Foundation.*

CHARLES DARWIN ADAMS, *Lawrence Professor of Greek.*

DAVID COLLIN WELLS, *Professor of Sociology.*

WILLIAM PATTEN, *Professor of Zoölogy.*

GEORGE DANA LORD, *Assistant Professor of Greek and of Greek Archæology.*

HERBERT DARLING FOSTER, *Professor of History.*

EDWIN BRANT FROST, *Instructor in Astronomy.*

FRANK GARDNER MOORE, *Assistant Professor of Latin.*

FRED PARKER EMERY, *Willard Professor of Rhetoric and Oratory.*

ERNEST FOX NICHOLS, *Professor of Physics and Director of Wilder Laboratory.*

ALBERT CUSHING CREHORE, *Appleton Assistant Professor of Physics.*

JOHN HIRAM GEROULD, *Instructor in Zoölogy.*

LOUIS HENRY DOW, *Assistant Professor of French.*

HARRY EDWIN BURTON, *Assistant Professor of Latin.*

JOHN HARVEY PROCTOR, *Assistant in Mathematics.*

WILLIAM GEORGE STOUGHTON, *Assistant Professor of German.*

FRANK HAIGH DIXON, *Assistant Professor of Economics.*

CHARLES HENRY RICHARDSON, *Instructor in Chemistry and Mineralogy.*

JOHN CHAMBERLAIN ROE, *Instructor in French.*

ELMER HOWARD CARLETON, *Instructor in Physical Culture and Director of the Gymnasium.*

HERBERT SPENCER JENNINGS, *Instructor in Zoölogy.*

ERNEST FELIX LANGLEY, *Instructor in French.*

ASHLEY KINGSLEY HARDY, *Instructor in German.*

GEORGE MAXWELL HOWE, *Instructor in German.*

CRAVEN LAYCOCK, *Instructor in Elocution and Oratory.*

JOHN MERRILL POOR, *Instructor in Mathematics and Astronomy.*

HENRY BARRETT HUNTINGTON, *Instructor in English.*

STANDING COMMITTEES OF THE FACULTY

1898-99

ADMINISTRATION — The President, the Acting President, the Dean, Professor Richardson (Senior class-officer), Professor Bartlett (Junior class-officer), Professor Emery (Sophomore class-officer), Professor Adams (Freshman class-officer).

INSTRUCTION — Professors Emerson, Wells, Hazen, G. D. Lord, Dow.

ADMISSION — Professors Sherman, Moore, Stoughton.

LIBRARY — Professors Bisbee, Jesup, Campbell, Foster, Worthen.

SCHOLARSHIPS — The President, the Dean, and the Class-officers.

ATHLETICS — Professors Bartlett, Patten, Dr. Carleton.

CATALOGUE — Professors Emerson, Bisbee, Mr. Poor.

COMMENCEMENT — The Dean, the Superintendent of Buildings.

GRADUATE INSTRUCTION — Professors Colby, Patten, Wells.

A General Faculty meeting is held on alternate Monday afternoons at 4.30 o'clock.

The Committee on Administration meets every Tuesday and Friday afternoon at 5 o'clock.

COURSES OF INSTRUCTION

The College offers three parallel Courses of instruction, each requiring four years of study:

The Classical Course, leading to the degree of B.A.

The Latin-Scientific Course, leading to the degree of B.L.

The Chandler Scientific Course, leading to the degree of B.S.

The studies in each of the three Courses are mainly prescribed throughout Freshman year.

The Classical Course comprises during this period Greek, Latin, Mathematics, either French or German, and English.

The Latin-Scientific Course is the same as the Classical, except that advanced work in French or German is prescribed in place of Greek.

The Chandler Scientific Course substitutes for Greek and Latin additional work in Mathematics, Science, Modern Languages, and Graphics.

After Freshman year the prescribed studies are the same in each of the three Courses, and include History, Physics, Economics, English Literature, Philosophy, and Law.

Elective studies are open to all students of the three Courses alike, and each student may take any elective offered, provided that his previous work has prepared him for its pursuit.

Members of the Chandler Scientific Course may substitute for the elective studies of Senior year, the work of the first year in the Thayer School of Civil Engineering. They may be candidates for the degree of B.S. with their Class, and after a second year of work in the Thayer School they may receive the degree of C.E. The conditions for such an election will be found under the Thayer School of Civil Engineering.

Students who intend to enter the Medical Department may receive credit for the first year of the medical course by electing such studies as are prescribed for that year, and by registering in the Medical Department at the opening of Senior year. The conditions for such an election will be found under the Medical School.

REQUIREMENTS FOR ADMISSION

All candidates for admission to college must offer satisfactory testimonials of good moral character; and those who have been members of other colleges must present certificates of regular dismission.

Candidates for admission to the Freshman class in the Classical Course must present satisfactory qualifications in the following subjects, according to specifications given under each subject: English, History I, Mathematics I, Latin, Greek.

Candidates for admission to the Freshman class in the Latin-Scientific Course must present satisfactory qualifications in the following subjects, according to specifications given under each subject: English, History I *or* II, Mathematics I, Latin, French *or* German, and *one* of the three sciences, Chemistry, Physics, Biology.

Candidates for admission to the Freshman class in the Chandler Scientific Course must present satisfactory qualifications in the following subjects, according to specifications given under each subject: English, History I *or* II, Mathematics I and II, French *or* German, and *two* of the three sciences, Chemistry, Physics, Biology. In place of Mathematics II, candidates may present two years of a second modern language, or of Latin.

SUBJECTS WITH SPECIFICATIONS

ENGLISH —

Two sets of books are prescribed for preparation in English, one for reading, the other for more careful study. No candidate will be accepted in English whose work is notably deficient in point of spelling, punctuation, idiom, or division into paragraphs. The requirement consists of two parts.

I. Reading — A certain number of books will be set for reading. The candidate will be required to present evidence of a general knowledge of the subject-matter, and be able to answer simple questions on the lives of the authors; he must also show the ability to write a paragraph or two on each of several topics, to be chosen by the candidate from a considerable number —

perhaps ten or fifteen — set before him. The treatment of these topics is designed to test the candidate's power of clear and accurate expression, and will call for only a general knowledge of the substance of the books. In place of a part or the whole of this test, the candidate may be allowed to present an exercise book, properly certified by his instructor, containing compositions or other written work done in connection with the reading of the books.

The books set for this part of the requirement will be:

In 1899, Pope's *Iliad*, Books i, vi, xxii, and xxiv; Dryden's *Palamon and Arcite*; The Sir Roger de Coverley Papers in *The Spectator*; Goldsmith's *Vicar of Wakefield*; Coleridge's *Ancient Mariner*; De Quincey's *Flight of a Tartar Tribe*; Cooper's *Last of the Mohicans*.

In 1900, Dryden's *Palamon and Arcite*; Pope's *Iliad*, Books i, vi, xxii, and xxiv; The Sir Roger de Coverley Papers in *The Spectator*; Goldsmith's *Vicar of Wakefield*; De Quincey's *Flight of a Tartar Tribe*; Tennyson's *Princess*; Scott's *Ivanhoe*; Cooper's *Last of the Mohicans*.

In 1901, Shakespeare's *The Merchant of Venice*; Pope's *Iliad*, Books i, vi, xxii, and xxiv; The Sir Roger de Coverley Papers in *The Spectator*; Goldsmith's *The Vicar of Wakefield*; Coleridge's *The Ancient Mariner*; Scott's *Ivanhoe*; Cooper's *The Last of the Mohicans*; Tennyson's *The Princess*; Lowell's *The Vision of Sir Launfal*; George Eliot's *Silas Marner*.

II. Study and Practice — This part of the requirement presupposes the thorough study of each of the works named below. The test will be upon subject-matter, form, and structure.

The books set for this part of the requirement will be:

In 1899, Shakespeare's *Macbeth*; Milton's *Paradise Lost*, Books i and ii; Burke's *Speech on Conciliation with America*; Carlyle's *Essay on Burns*.

In 1900, Shakespeare's *Macbeth*; Milton's *Paradise Lost*, Books i and ii; Burke's *Speech on Conciliation with America*; Macaulay's *Essays on Milton and Addison*.

In 1901, Shakespeare's *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso*; Burke's *Speech on Conciliation with America*; Macaulay's *Essays on Milton and Addison*.

HISTORY I (including Historical Geography) —

- (a) The History of Greece to the death of Alexander, with due reference to Greek life, literature, and art.
- (b) The History of Rome : to the accession of Commodus, with due reference to literature and government.

It is assumed that each candidate has had, at some point in his study, an elementary course in United States History.

HISTORY II (including Historical Geography) —

- (a) English History, with due reference to social and political development.
- (b) American History, with the elements of Civil Government.

This is intended as an advanced course and assumes a previous elementary course. It is expected that the study of American History will be such as to show the development and origin of the institutions of our own country ; that it will, therefore, include the colonial beginnings ; and that it will deal with the period of discovery and early settlement sufficiently to show the relations of peoples on the American continent, and the meaning of the struggle for mastery.

Satisfactory written work done in the secondary school, and certified by the teacher, constitutes a considerable part of the evidence of proficiency required by the college. It is suggested that this requirement may be met by making a note-book or bound collection of notes. Such written work should include practice in at least two of the following :

- (a) Notes and digests of the candidate's reading outside the text-books.
- (b) Written recitations requiring the use of judgment and the application of elementary principles.
- (c) Written parallels between historical characters or periods.
- (d) Brief investigations of topics limited in scope, prepared outside the class-room, and including some use of original material where available.
- (e) Historical maps or charts, made from printed data and comparison of existing maps, and showing movements of exploration, migration or conquest, territorial changes or social phenomena.

The preparation calls for comparison and the use of judgment on the candidate's part, rather than the mere use of memory, and presupposes

the use of good text-books, collateral reading, and practice in written work. Geographical knowledge will be tested by requiring the location of places and movements on an outline map, by physical features, whenever possible, as well as by political divisions.

For each of the alternatives, I or II, two years' work of at least three periods a week or an equivalent is recommended.

The above requirements are based upon the recommendations of the New England Association of Colleges and Preparatory Schools and of the "New York Conference." Candidates now preparing according to the requirements on page 34 of the annual catalogue for 1897-98 will be accepted on that basis in 1899.

For each division of History, the candidates should be prepared on an equivalent of a good text-book of at least 300 pages, and also on at least 300 pages of additional reading. The following list will indicate the nature and amount of work required.

Greek History —

either (a) Oman's or Myers' History of Greece, with additional reading,

or (b) Fyffe's Greece, Sheldon's Studies, and 400 pages additional reading,

or (c) Fyffe; Curtius' History of Greece, Book i, Ch. i; Book iii, Ch. iii; and *either* (1) Plutarch's Lives of Aristides and Demosthenes, *or* (2) Curtius' History of Greece, Book ii, Ch. iv.

Roman History —

either (a) Allen's Short History of the Roman People, and 300 pages additional reading,

or (b) both Creighton's Rome and Sheldon's Studies, and 400 pages additional reading,

or (c) Creighton's Rome; Tighe's Development of the Roman Constitution; and *either* (1) Froude's Cæsar, Ch. xiv, xxvi-xxviii, Plutarch's Lives of Cato the Elder and Cicero, and the comparisons of Cato with Aristides, and of Cicero with Demosthenes; *or* (2) Beesly's The Gracchi, Marius, and Sulla.

American History —

either (a) Channing's Students' History of the United States or Johnston's History of the United States for Schools, each with 200 pages additional reading,

- or (b)* Higginson's Young Folks' History of the United States, through Ch. xvi, together with 200 pages additional reading and *either* (1) Channing's United States 1765-1865, *or* (2) Johnston, from beginning of Period V,
- or (c)* Higginson; Lodge's English Colonies, Ch. ii and xxii; Morse's John Quincy Adams, Ch. ii and iii; Josiah Quincy's Figures of the Past.

English History —

either Higginson and Channing's English History for Americans, *or* Montgomery's Leading Facts of English History, *or* Gardiner's English History for Schools, each with at least 300 pages additional reading, which may be selected from the following list:— Creighton's Age of Elizabeth, Guest's Lectures on English History, Gardiner's Puritan Revolution, Freeman's Short History of the Norman Conquest, Green's Short History of the English People, Ch. i and Ch. vi, Sections iii-vii, Mrs. J. R. Green's Henry II, Macaulay's History of England, Ch. iii.

MATHEMATICS I —

Algebra — The fundamental operations, simple equations with applications to problems involving two or more unknown quantities, the principles of factoring, involution and evolution applied to expressions containing fractional and negative exponents, radicals, including imaginaries and radical equations, quadratic equations, with applications to problems involving two unknown quantities.

Plane Geometry — With the use of the metric system in the construction and solution of numerical problems based on the principal theorems.

MATHEMATICS II —

Algebra — Including inequalities, indeterminate equations, ratio and proportion, variation, arithmetical, geometrical, and harmonical progression, the Binomial Theorem for any exponent, the convergency and divergency of series, and undetermined coefficients, as treated in Wentworth's School Algebra, or in Charles Smith's Elementary Algebra.

Geometry — Solid geometry, with the solution of problems relating to the surfaces and volumes of the solids treated — Phillips and Fisher, Wells, or Wentworth.

Trigonometry — Plane trigonometry, including the practical use of the logarithmic and trigonometric tables — Crawley, Wells, or Wentworth.

LATIN —

A knowledge of the Latin language sufficient to enable the student —

I. To translate at sight passages of Latin prose and verse, and to answer questions on ordinary forms, constructions, and idioms, and on prosody.

II. To pass a thorough examination on Cicero's speeches against Catiline, ii, iii, and iv, directed to testing the candidate's mastery of ordinary forms, constructions, and idioms of the language.

III. To translate into Latin prose a passage of connected English narrative, based on some portion of the Latin prose works usually read in preparation for college, and limited to the subject-matter of those works.

The following course of study in Latin is suggested as adequate to secure the proficiency desired:

FIRST YEAR — FIVE LESSONS A WEEK

First and Second Terms — Introductory Lessons.

Third Term — Easy reading, such as Fables, Viri Romæ, Eutropius, etc., (15 to 25 pages¹). Practice in reading at sight² and in writing Latin.³ Systematic study of grammar begun.

SECOND YEAR — FIVE LESSONS A WEEK

First Term — Easy reading continued (15 to 25 pages). Nepos or Cæsar (15 to 20 pages⁴).

¹ Teubner pages are the standard.

² "Reading at sight" is used as a convenient phrase to denote the reading of the Latin text, with understanding of the sense, independently of or preliminary to the formal rendering into idiomatic English; and by "practice in reading at sight" is meant not merely the translation of unprepared passages in class, but also the inculcation of correct methods of reading, to be used by the candidate in preparing assigned passages. Reading the Latin aloud is an indispensable part of this practice.

³ Writing Latin throughout the course should be based upon the prose authors read, and should advance from simple sentences to connected passages.

⁴ *E. g.*, B. G. ii (17 1-2 pages).

Second Term — Cæsar (30 to 40 pages ¹).

Third Term — Ovid's *Metamorphoses* (750 to 1000 lines).

Practice in reading at sight and in writing Latin, with systematic study of grammar throughout the year.

THIRD YEAR — FIVE LESSONS A WEEK

First Term — Vergil's *Æneid* (750 to 1000 lines ²). Cicero, against Catiline, i and ii. Practice in reading at sight and in writing Latin. Grammar.

Second and Third Terms — Cicero, against Catiline, iii and iv. Cæsar (45 to 60 pages), and Ovid (500 to 750 lines), mainly for practice in reading at sight. Thorough grammatical review and practice in writing Latin, both based on study of Cicero, against Catiline, ii-iv.

FOURTH YEAR — FIVE LESSONS A WEEK

Cicero (45 ³ to 60 pages). Vergil (4000 ⁴ to 6000 lines).⁵ Practice in reading at sight and in writing Latin. Grammar.

GREEK —

A knowledge of the Greek language sufficient to enable the student —

I. To translate at sight passages of Attic prose and of Homer, and to answer questions on ordinary forms, constructions, and idioms, and on prosody.

II. To pass a thorough examination on Xenophon's *Anabasis*, Book ii, directed to testing the candidate's mastery of ordinary forms, constructions, and idioms of the language.

III. To translate into Greek prose a passage of connected English narrative, based on some portion of the Greek prose works usually read in preparation for college, and limited to the subject-matter of those works.

¹ *E. g.*, B. G. i (33 1-2 pages) or iii and iv (34 pages).

² Book i contains 756 lines.

³ *E. g.*, pro Archia, de lege Manilia, and pro Marcello (46 pages).

⁴ Books ii-vi of the *Æneid* contain 3,999 lines.

⁵ Prosody should be taken up in connection with the study of Latin poetry, and in reading metrically, constant attention should be given both to the rhythm and the thought.

The following course of study in Greek is suggested as adequate to secure the proficiency desired:

FIRST YEAR — FIVE LESSONS A WEEK

First and Second Terms — Introductory Lessons.

Third Term — Xenophon's *Anabasis* (20 to 30 pages). Practice in reading at sight and in writing Greek. Systematic study of grammar begun.

SECOND YEAR — FIVE LESSONS A WEEK

Xenophon's *Anabasis* (continued), either alone or with other Attic prose (85 to 120 pages). Practice in reading at sight. Systematic study of grammar. Thorough grammatical review and practice in writing Greek, both based on Books i and ii of the *Anabasis*.¹

THIRD YEAR — FIVE LESSONS A WEEK

Homer (2500² to 5000³ lines). Prosody should be taken up in connection with the study of Homer, and in reading metrically, constant attention should be given both to the rhythm and the thought. Attic prose (25 to 40 pages⁴) with practice in writing Greek. Grammar. Practice in reading at sight.

FRENCH —

I. Edgren's French Grammar, complete.

II. The translation into simple idiomatic English of standard French prose, the amount of reading necessary for this preparation being about 800 duodecimo pages, exclusive of sight reading in the class, chosen from at least five of the standard French prose writers.

¹ Writing Greek throughout the course should be based upon the prose authors read, and should advance from simple sentences to connected passages.

² *E. g.*, Iliad i-iv (omitting ii, 494—end) and vi. The increase in the requirements in Homer from three books to five is made on the assumption that the attention paid to reading at sight will enable the candidate to advance more rapidly.

³ *E. g.*, Iliad i-iii (omitting ii, 494—end) and vi-viii.

⁴ Making a total of 130-190 pages of Attic prose, equivalent to four to six books of the *Anabasis*. Good equivalents for a part of the *Anabasis* will be found in Xenophon's *Hellenica*, *Cyropædia*, or *Œconomicus*, and in the *Orations of Lysias*.

III. The translation into French of connected passages of English, to test the candidate's familiarity with grammar and syntax. (Parts i and ii of Grandgent's *Selections for French Composition* are recommended as a preparation for this.)

To meet the above requirements two full years of five periods a week are necessary.

GERMAN —

I. Joynes-Meissner's *German Grammar*, complete.

II. The translation into German of a passage of easy English prose.

Candidates will be expected to have acquired a thorough knowledge of accidence, the elements of word-formation, and the principal uses of prepositions and conjunctions; the essentials of syntax, especially the uses of modal auxiliaries, and the subjunctive and infinitive modes.

III. The translation at sight of ordinary German.

Candidates will be expected to have read (*a*) at least 150 duodecimo pages of simple German, chiefly narrative prose; (*b*) at least 300 duodecimo pages of classical and contemporary prose and verse, to be selected from such works as the following: — Riehl: *Culturgeschichtliche Novellen*; Freytag: *Bilder aus der deutschen Vergangenheit*, especially *Aus dem Mittelalter* and *Aus dem Jahrhundert des grossen Krieges*; Kohlrausch: *Das Jahr 1813*; Schiller: *Der dreissigjährige Krieg*, *Wilhelm Tell*, *Maria Stuart*, *Die Jungfrau von Orleans*; Goethe: *Hermann and Dorothea*, *Egmont*, *Iphigenie*; Lessing: *Minna von Barnhelm*. At least one half of (*b*) should be nineteenth century prose.

Candidates will be expected to have studied German in a systematic course of at least five periods a week for two years.

It is recommended that Part I of Joynes-Meissner's *German Grammar* (including the translation of the English sentences into German), or an equivalent, be thoroughly mastered before translation of German texts is begun. It is important that all translation should be done into clear and idiomatic English. Practice in pronunciation by reading aloud as much as possible from the texts used in class is recommended; also the writing of German from dictation.

CHEMISTRY —

Acquaintance by laboratory work with elementary processes and with the properties of substances common in chemistry; familiarity with the chemical notation in its experimental and arithmetical meaning, including the ability to solve simple problems based on the relations expressed by formulas and equations; understanding and ability to use correctly the ordinary terms of Descriptive Chemistry. Bartlett's Laboratory Exercises, Parts i-v (exclusive of Class i, Part ii), or equivalent. A certified note-book of laboratory work must be presented. The candidate should have had in addition recitations based upon any good elementary descriptive text-book through the non-metallic and metallic elements.

To meet the above requirement, at least 110 hours of elementary chemistry are necessary, one-half laboratory work, illustrating the preparation and the properties of the substances ordinarily treated in elementary chemistry. Qualitative Analysis will not be accepted as an equivalent for the laboratory work prescribed.

PHYSICS —

I. Gage's Elements of Physics, or Avery's Elements of Natural Philosophy, or an equivalent.

II. A course of experiments, not less than forty in number, in Dynamics of Solids, Liquids, and Gases. The candidate must present his original note-book, with the record of his experiments certified by his instructor.

To meet the above requirement at least three exercises a week throughout the school year are necessary.

BIOLOGY —

I. *Zoölogy* — The equivalent of fifty one-hour exercises, consisting mainly of laboratory work in the study of the structure and life-histories of representative animals.

The candidate will be required to present a certified note-book, containing complete records of the conditions under which his observations were made, as well as the observations themselves; also sketches of all the animals, or their organs, that have been studied.

No work necessitating the use of a compound microscope is required.

Needham's Elementary Lessons in Zoölogy.

II. *Botany* — The equivalent of fifty one-hour exercises in systematic Botany of flowering plants. The candidate will be required to present an herbarium, certified to be the product of his own work, of fifty species, carefully dried, mounted, and ticketed.

Gray's *Lessons in Botany* (revised edition), first 125 pages, or Bergen's *Elements of Botany*, first 218 pages, with Gray's *Manual of Botany* (sixth edition) for system of classification.

A certified note-book must be presented with the herbarium, containing descriptions of twenty-five species of plants. For a good form to follow in the description, see "How to Describe a Flowering Plant," by F. L. Sargent, a small pamphlet that may be obtained from the Cambridge (Mass.) Botanical Supply Company.

METHODS OF ADMISSION

Admission to the Freshman class in college is gained either by examination or by certificate.

ADMISSION BY EXAMINATION

Candidates in 1899 will present themselves with their credentials at the Dean's office at one of the following hours, for registration and admission to the examinations:

On Thursday, June 22, at 8.30 A.M. and 2.30 P.M.; on Friday, June 23, at 8.30 A.M. and 2.30 P.M.; on Saturday, June 24, at 8.30 A.M.

On Monday, September 11, at 2.30 P.M.; on Tuesday, September 12, at 8.30 A.M. and 2.30 P.M.; on Wednesday, September 13, at 8.30 A.M. and 2.30 P.M.

Examinations for admission are held in the English Room, Culver Hall, as follows:

In English, on Thursday, June 22, at 9 A.M., and Monday, September 11, at 3 P.M.

In History, on Thursday, June 22, at 3 P.M., and Tuesday, September 12, at 9 A.M.

In Mathematics, on Friday, June 23, at 9 A.M., and Tuesday, September 12, at 3 P.M.

In Latin and Sciences, on Friday, June 23, at 3 P.M., and Wednesday, September 13, at 9 A.M.

In Greek, and French or German, on Saturday, June 24, at 9 A.M., and on Wednesday, September 13, at 3 P.M.

Examinations for admission to the Freshman class (but not to higher classes) will also be held on the above specified days in June, in Manchester, N. H.; St. Johnsbury, and Bellows Falls, Vt.; Boston (at the Chauncy Hall School), New York City, and Chicago, at places to be announced in the local newspapers or by personal notice to applicants; provided that the number of candidates for examination, preliminary or final, in any of the places named shall warrant it. All applications for examinations in June at these places should be made to the Dean before June 10th.

The College is also prepared to hold an examination for admission to the Freshman class (but not to higher classes) on the above-named days in June in any city or at any school where the number of candidates for examination, preliminary or final, and the distance from other places of examination may warrant it, provided that applications for this purpose be made to the Dean before June 1st.

PRELIMINARY EXAMINATIONS

Candidates for admission to the Freshman class are allowed to take a partial examination, one year before their matriculation, on the following subjects:

Mathematics: Geometry.

Latin: 1. The translation at sight of simple prose and verse.

2. A thorough examination on Cicero's speeches against Catiline ii, iii, and iv, directed to testing the candidate's mastery of the ordinary forms, constructions, and idioms of the language; the test to consist, in part, of writing simple Latin prose, involving the use of such words, constructions, and idioms only, as occur in the speeches prescribed.

Greek: 1. The translation at sight of simple Greek prose.

2. A thorough examination on Xenophon's *Anabasis*, Book ii, directed to testing the candidate's mastery of the ordinary forms, constructions, and idioms of the language; the test to consist, in part, of writing simple Greek prose, involving the use of such words, constructions, and idioms only, as occur in the portion of Xenophon prescribed.

French : Edgren's Grammar, complete ; 150 pages of O'Connor's Contes Contemporains, or a full equivalent.

German : Part I and II of the German requirement, (see p. 77).

In this examination no condition will be imposed, and a failure in any subject will necessitate the re-examination of the candidate in the department to which that subject belongs.

Candidates who have passed the examination will receive certificates for the work done, and these certificates, when presented in the following year, but not later, will be received in place of an examination, in the subjects mentioned in them.

ADMISSION BY CERTIFICATE

In place of examinations, certificates will be received from preparatory schools which have been approved by vote of the Faculty. No school will be approved that has not an established, regular, and thorough course of preparation for college, and all schools which desire to be placed on the list of "approved schools" should forward to the Dean of the Faculty, together with their request for approval, printed copies of their courses of study, and also such other information as may tend to give a full knowledge of their work. Approval of a school will be withdrawn whenever it appears that the work of the school does not reach the standard desired by the college. No certificate will be accepted from a private tutor or instructor.

Certificates should meet the requirements in full ; but in case of exceptions, a certificate will be accepted for the departments of study in which it is complete, and the candidate will be examined in the department or departments in which the exceptions occur. If the certificate makes exceptions in more than a third of the departments of study required for admission, it will not be accepted, and the candidate will be examined on all the requirements.

Certificates must be made out on blanks furnished by the Dean of the Faculty, and it is requested that they be sent to him at the close of the school year.

ADVANCED STANDING

Candidates for advanced standing are examined, in addition to the studies required for admission, in those which have been pursued by the class which they propose to enter, or in others equivalent to them. Certificates from schools are not accepted for studies which are offered for advanced standing.

Students from other Colleges, which require the same or equal terms of admission with Dartmouth, and which offer the same or equal courses of study, will be credited with the work for which they bring the record of full standing in the letters of transfer.

SPECIAL STUDENTS

Persons who desire to attend the lectures and recitations of particular departments only, may have that privilege, provided they give evidence that they are fully prepared to enter upon the studies of such departments, and provided also, they represent so much general training as may entitle them to undertake College work. Students who are enrolled as members of classes, but who fail in one or more studies, are not allowed to become special students, but are required, if they remain in College, to make up the studies in which they failed, with the class below. No provision is made for partial distinction from special students.

RESIDENT GRADUATE STUDENTS

Instructions to graduate students who wish to take courses leading to graduate degrees, may be found on pages 129-131.

Graduates of this or any other College, desirous of pursuing their studies in residence, without reference to a degree, may attend the public lectures of the College, and use the library, laboratories, apparatus, and scientific collections, subject to such rules as the Faculty may establish.

DEPARTMENTS OF INSTRUCTION

GREEK

PROFESSOR ADAMS, ASSISTANT PROFESSORS LORD AND BURTON.

Courses 3 and 9 will be first offered in 1899-1900.

Courses 10 and 11 alternate with Courses 5 and 4; in 1898-99, Courses 10 and 11 are given.

Figures in brackets indicate number of exercises a week.

1. Plato: Apology and Crito. The life and times of Socrates will be studied with special reference to the conditions prevailing at Athens at the close of the Peloponnesian war. Weekly exercises in writing Greek to be based on the text read. Lectures on the life and the artistic products of the Greeks. First Semester, fifty-four exercises, [3]. PROFESSORS ADAMS, LORD, AND BURTON.

2. Greek Drama I. Sophocles: Antigone. This course is designed as a general introduction to Drama. Lectures on the development of Greek Drama. Exercises in writing Greek to be based on Plato or Lysias. Second Semester, fifty-four exercises, [3].

PROFESSORS ADAMS, LORD, AND BURTON.

3. Greek Drama II. Aristophanes: The Frogs. Introduction to Attic Comedy; lectures on its relation to politics and literature. First Semester, thirty-six exercises, [2]. PROFESSOR ADAMS.

4. Greek Drama III. Æschylus: The Oresteia. The three dramas will be studied in part by class translation, and in part by readings and lectures by the instructor. Lectures on dramatic criticism. Themes in connection with dramatic criticism, and exercises in Greek rhythmic. First Semester, fifty-four exercises, [3].

PROFESSOR ADAMS.

5. Greek Drama IV. Euripides: *Iphigenia among the Taurians*, and *Alcestis* will be read. Lectures on the construction of theatres in Greece, and discussion of problems in the staging of Greek plays. Second Semester, fifty-four exercises, [3].

PROFESSOR LORD.

6. Greek Oratory I. Studies in the development of Greek Oratory. Lectures and exercises in rhetorical criticism. Collateral reading in the *History of Greek Literature*. The class will read selections from Gorgias, Isocrates, Antiphon, and Lysias. Writing Greek: exercises based on Lysias. First Semester (in 1898-99), seventy-two exercises, [4]; (in 1899-1900), fifty-four exercises, [3].

PROFESSOR ADAMS.

7. Greek Oratory II. Demosthenes: *De Corona*. The reading course is preceded by a careful study of the history of Greece from the close of the Peloponnesian war to the death of Alexander, with lectures upon the significance of the struggle with Philip. The oration is studied with special emphasis upon its rhetorical features. The minute study of a small portion of the text is made the basis of an introduction to textual criticism. Writing Greek: exercises based on Demosthenes. Second Semester (in 1898-99), seventy-two exercises, [4]; (in 1899-1900), fifty-four exercises, [3].

PROFESSOR ADAMS.

8. Greek History. Some attention will be given to the method of the most significant modern writers on Greek History, but the course is designed principally to introduce the student to the immediate study, from the sources, of Athens during the two generations following the Persian wars. Epigraphical evidence particularly will be examined. First Semester, fifty-four exercises, [3].

PROFESSOR LORD.

9. Lyric Poetry. Rapid reading of selections. Lectures on the relations of Lyric poetry to contemporary life, and on the development of its types. Second Semester, thirty-six exercises, [2].

PROFESSOR LORD.

10. Epic Poetry. History of Homeric Study. The *Iliad* will be read with reference to special problems, particularly theories of European production. Second Semester, fifty-four exercises, [3].

PROFESSOR LORD.

11. Greek Philosophy. Plato: The *Phædo*. Introduction to Platonism. Collateral reading in the History of Greek Philosophy. First Semester, fifty-four exercises, [3]. PROFESSOR ADAMS.

12. History of Greek Literature. Lectures upon the development of Greek Literature and its relation to the political and artistic development of the Greek people. Rapid reading of selections from some authors not included in the preceding courses. Second Semester, fifty-four exercises, [3]. PROFESSOR ADAMS.

13. Greek Language I. This course is designed for those who intend to become teachers. Parts of the Oration on the Crown are made the basis of practice in writing Greek, and of the study of particular words, idioms, and constructions, by individual assignment of topics; this special work is reported in a final thesis. Open to those only who have taken Course 7. First Semester, fifty-four exercises, [3]. PROFESSOR ADAMS.

14. Greek Language II. This is a continuation of Course 13, including constant practice in writing Greek and an introduction to Greek Phonetics. Giles's Manual of Comparative Philology will be used as a text-book. Open to those only who have taken Course 13. Second Semester, fifty-four exercises, [3]. PROFESSOR ADAMS.

15. Greek Archæology I. Introduction to the study of Architecture, Sculpture, and Painted Vases. Selections from Pausanias' Description of Attica and of Corinth will be read. This course, designed chiefly as a preparation for Course 16, informs the student of the sources and the more important characteristics of the materials for Greek Archæology. Particular attention is paid to topography and architecture. Constant use is made in this course and in Course 16 of the Sullivan collection of photographs purchased by contributions from alumni. First Semester, fifty-four exercises, [3].

PROFESSOR LORD.

16. Greek Archæology II. Sculpture. Study by manuals and by lectures. During this course three days at least will be spent in the Boston Museum of Fine Arts. Independent studies from photographs or casts are required. Second Semester, fifty-four exercises, [3].

PROFESSOR LORD.

LATIN

PROFESSOR J. K. LORD AND ASSISTANT PROFESSORS MOORE
AND BURTON

Courses 8 and 9, 10 and 11, 12 and 13, 14 and 15, 16 and 17 are given in alternate years respectively. Courses 5 and 7 will be first offered in 1899-1900.

1. Livy: Book XXII, with reading at sight from Books I and XXI. Exercises in writing Latin based on the text. First Semester, forty-two exercises, [3]. PROFESSORS LORD, MOORE, AND BURTON.

2. Terence: *Phormio* and *Adelphi*. Scenic antiquities. Exercises in Latin composition on the basis of the plays read. First and second Semesters, thirty-six exercises, [3].

PROFESSORS LORD, MOORE, AND BURTON.

3. Horace: Odes. Selections chiefly from Books I-III. Second Semester, thirty exercises, [3].

PROFESSORS LORD, MOORE, AND BURTON.

4a. Cicero: Letters. A selection to illustrate the public career and private life of Cicero from his consulship. Latin composition based on the text, equivalent in amount to one exercise a week. Abbott's selected Letters of Cicero. First Semester, seventy-two exercises, [4].

PROFESSOR MOORE.

5a. Tacitus: *Agricola* and *Histories*. The conquest of Britain and its history as a Roman province. Sight reading from the *Germania*, with a few lectures on Germanic customs, and the wandering of the Teutonic nations. One exercise a week or its equivalent will be devoted to Latin composition. Second Semester, seventy-two exercises, [4].

PROFESSOR MOORE.

4. Cicero: Letters, or *Tusculan Questions*. First Semester, fifty-four exercises, [3].

PROFESSOR BURTON.

5. Tacitus: *Agricola* and *Germania*. First Semester, thirty-six exercises, [2].

PROFESSOR MOORE.

6. Catullus, Tibullus, and Ovid. Second Semester, fifty-four exercises, [3]. PROFESSOR BURTON.

7. Tacitus: Histories. Second Semester, thirty-six exercises, [2]. PROFESSOR MOORE.

8. Cicero: Brutus. As far as possible, fragments of Roman oratory illustrative of Cicero's judgments will be read, and also passages from his other works that deal with his own theory and practice of oratory. Each student will be required to study carefully a speech of Cicero, and to prepare and to read before the class an essay upon it. Exercises in Latin composition will form a part of the course. First Semester, seventy-two exercises, [4]. PROFESSOR LORD.

9. Latin Literature. Selections from different authors illustrating the development of the literature. Lectures will be given upon the literature and upon individual authors, and essays upon special subjects connected with the course will be required of the students. First Semester, seventy-two exercises, [4]. PROFESSOR LORD.

10. Plautus and Seneca. Several plays of Plautus will be read in the class, and in addition each student will be required to read one play by himself, and to make a report upon the play before the class. The Medea and Phædra of Seneca. Exercises in Latin composition. First Semester, fifty-four exercises, [3].

PROFESSORS LORD AND MOORE.

11. Lucretius: Selections from the De Rerum Natura. First Semester, fifty-four exercises, [3]. PROFESSOR MOORE.

12. Horace: Satires and Epistles, with special reference to the social life of the times. Second Semester, fifty-four exercises, [3]. PROFESSOR MOORE.

13. Seneca: Essays and Epistles. Second Semester, fifty-four exercises, [3]. PROFESSOR LORD.

14. Justinian: Institutes, with select passages from Gaius and the Digest. Second Semester, thirty-six exercises, [2].

PROFESSOR MOORE.

15. The Topography of Rome. The subject will be treated, so far as possible, historically. The course, which will include also a discussion of the excavations at Pompeii, will consist chiefly of lectures, illustrated by plans and photographs. Collateral reading and short papers will be required of the students. Second Semester, thirty-six exercises, [2].
PROFESSOR BURTON.

16. Roman Archæology. Second Semester, thirty-six exercises, [2].
PROFESSOR MOORE.

17. Roman Satire. The development of this peculiar form of literature will be considered in its various phases. Some of the fragments of Lucilius will be read, portions of the Satires of Horace and Persius and a considerable part of Juvenal. Second Semester, thirty-six exercises, [2].
PROFESSOR BURTON.

HEBREW

DR. HUNTINGTON

1. Bissell's Practical Introductory Hebrew Grammar and Exercises. Recitations. Second Semester, fifty-four exercises, [3].

ENGLISH

PROFESSORS RICHARDSON AND EMERY AND MESSRS. LAYCOCK
AND HUNTINGTON

1. (a) English Composition and Rhetoric. An introduction to the study of Rhetoric, with the preparation and criticism of themes, and constant reference to printed examples of correct and incorrect style. (Hill's Principles of Rhetoric and Genung's Rhetorical Analysis.) First Semester, thirty-six exercises, [2].

PROFESSOR EMERY AND MESSRS. LAYCOCK AND HUNTINGTON.

1. (b) Oratory. An introductory course in the elements of Elocution and Oratory, with weekly declamations and orations. First Semester, eight exercises, last eight weeks, [1]. MR. LAYCOCK.

1 c. Rhetoric. Recitations and lectures, with the preparation and criticism of themes, and with constant reference to printed examples of correct and incorrect style. (Hill's Principles of Rhetoric and Genung's Rhetorical Analysis.) First Semester, thirty-six exercises, [2].

[Offered only in 1898-99.]

PROFESSOR EMERY AND MESSRS. LAYCOCK AND HUNTINGTON.

2. (a) English Composition and Rhetoric. A continuation of Course 1. (Wendell's English Composition.) Second Semester, thirty-six exercises, [2].

PROFESSOR EMERY AND MR. HUNTINGTON.

2. (b) Oratory. A continuation of Course 1, with frequent lectures on Oratory and Literature. Second Semester, eighteen exercises, [1].

MR. LAYCOCK.

3. (a) History of the English Language, with special reference to Chaucer and other early English writers. (Lounsbury's History of the English Language, and Chaucer's Canterbury Tales.) First Semester, thirty-six exercises, [2].

PROFESSOR EMERY.

3. (b) Oratory and Voice Culture. A fundamental course in voice-training and expression. First Semester, thirty-six exercises, [2].

MR. LAYCOCK.

3. Argumentative Composition and Oratory, Lectures, and Forensics, with daily practice in the application of rhetorical and oratorical principles to argumentation. First Semester, seventy-two exercises, [4].

[Offered in 1899-1900.]

PROFESSOR EMERY AND MR. LAYCOCK.

4. (a) Argumentative Composition and Oratory. This course is described under English 3; for the present year, it will be given in the Second Semester and required of students in the Latin-Scientific, and Chandler Scientific courses. Second Semester, thirty-six exercises, [2].

[Offered only in 1898-99].

PROFESSOR EMERY.

4. (b) Argumentative Oratory. Elective for 1898-99. Second Semester, thirty-six exercises, [2].

MR. LAYCOCK.

4. Argumentative Oratory. This is a continuation of Course 3, and is open only to such students as have passed in that course. It will consist of the preparation of numerous briefs and forensics for debate, and daily practice in Oratorical Argumentation. Second Semester, seventy-two exercises, [4].

[Offered in 1899-1900.]

PROFESSOR EMERY AND MR. LAYCOCK.

5. Advanced English Composition, with daily and fortnightly themes. This course is open to Seniors and Juniors, and to such Sophomores, who do not elect English 3, as are competent to pursue and profit by the course. First Semester, fifty-four exercises, [3].

[Offered in 1899-1900.]

PROFESSOR EMERY AND MR. HUNTINGTON.

6 a. The English Bible, considered as literature. Lectures, and study of the literary content and language of Wycliffe's New Testament, as an introduction to English prose of the fourteenth century. Second Semester, thirty-six exercises, [2].

PROFESSOR RICHARDSON.

7. English Literature. Recitations, with assignments of readings, daily illustrations from representative authors, and frequent lectures, designed to set forth the philosophy of literature, and the relation of English writers to their predecessors and contemporaries. (Brooke's English Literature.) First Semester, fifty-four exercises, [3].

PROFESSOR RICHARDSON.

8. American Literature. Lectures, recitations, and daily readings from representative authors, with discussions tending toward the development of independent critical power. (Richardson's American Poetry and Fiction.) Second Semester, fifty-four exercises, [3].

PROFESSOR RICHARDSON.

9. Anglo-Saxon. Introduction to the knowledge of the word-forms and literary style of Old English prose. (Smith's Old English Grammar.) First Semester, fifty-four exercises, [3].

PROFESSOR RICHARDSON.

10. English Lyric Poetry. (Palgrave's Golden Treasury.) Second Semester, fifty-four exercises, (3).

PROFESSOR RICHARDSON.

FRENCH

ASSISTANT PROFESSOR DOW, DR. ROE, AND MR. LANGLEY

1. Elementary Course. Grammar (Edgren, Parts I and II), the translation from French into English (Mérimée, *Colomba*), the sight-reading of simple French (Super's Reader), and the translation into French of simple, detached English sentences, illustrating the elementary rules of grammar and the simpler rules of syntax. First Semester, fifty-four exercises, [3].

PROFESSOR DOW AND MR. LANGLEY.

2. Continuation of Course 1. Grammar (Edgren, Part III), the translation and sight-reading of French prose (George Sand, *La Mare au Diable*; Dumas père, *La Tulipe noire*), the translation into French of connected passages of English, based on the texts read, and the slow dictation of simple French prose. Second Semester, fifty-four exercises, [3].

PROFESSOR DOW AND MR. LANGLEY.

Courses 1 and 2 are prescribed for Freshmen in the Latin-Scientific, and the Chandler Scientific Courses who do not offer French for admission to college, and for Freshmen in the Classical Course who do not elect German, and who are not eligible to Courses 3 and 4. Either course may also be elected, after Freshman year, by students in the Classical Course not entitled to enter a more advanced course. A separate division, made up of students who have previously studied French, will be formed for the sake of pursuing somewhat more advanced work than that of the other divisions.

1 a. Elementary French. (Prescribed in 1898-99, for Sophomores in the Classical Course, but discontinued thereafter.) Grammar (Edgren, Parts I-II, and a portion of III), the translation and sight-reading of simple French prose (Super's Reader), and exercises in elementary French composition. Second Semester, seventy-two exercises, [4].

PROFESSOR DOW, DR. ROE, AND MR. LANGLEY.

3. Advanced Course. The work comprises a careful review of the rules of syntax (Edgren's Grammar, Part III), with exercises in French Composition to illustrate their application, the translation and sight

reading of extracts from some of the standard French writers (Fasnacht, *Select Specimens*), and the slow dictation of ordinary French prose. First Semester, fifty-four exercises, [3].

PROFESSOR DOW AND MR. LANGLEY.

4. Continuation of Course 3. The following works will be read: Racine, *Athalie*; Molière, *Les Femmes savantes*; La Fontaine, *Selected Fables*; Chateaubriand, *Les Aventures du dernier Abencerage*; Hugo, *Hernani*; Balzac, *Le Curé de Tours*. A more rapid dictation of ordinary French prose. Several of La Fontaine's fables will be committed to memory and brief summaries will be written in French of portions of the works read. Second Semester, fifty-four exercises, [3].

PROFESSOR DOW AND MR. LANGLEY.

Courses 3 and 4 are prescribed for Freshmen in the Latin-Scientific and the Chandler Scientific Courses who offered French for admission to college. They may also be elected by students in the Latin-Scientific and the Chandler Scientific Courses who have passed in Courses 1 and 2, and by students in the Classical Course who have had an amount of French equivalent to the requirements for admission to the Latin-Scientific and the Chandler Scientific Courses.

5. General survey of the last three centuries of French Literature. Reading of a number of the more important works in prose and poetry, and a study of the development of the language. First Semester, fifty-four exercises, [3].

[Offered in 1899-1900.] PROFESSOR DOW AND MR. LANGLEY.

6. Continuation of Course 5. Second Semester, fifty-four exercises, [3].

[Offered in 1899-1900.] PROFESSOR DOW AND MR. LANGLEY.

7. Elementary Course in Conversation and Composition. Open to students who have passed in Courses 1 and 2. First Semester, thirty-six exercises, [2].

[Offered in 1899-1900.]

MR. LANGLEY.

8. Continuation of course 7. Second Semester, thirty-six exercises, [2].

[Offered in 1899-1900.]

MR. LANGLEY.

9. Advanced Course in Conversation and Composition. Open to students who have passed in Courses 3 and 4. First Semester, thirty-six exercises, [2].

[Offered in 1899-1900.]

PROFESSOR DOW.

10. Continuation of Course 9. Second Semester, thirty-six exercises, [2].

[Offered in 1899-1900.]

PROFESSOR DOW.

11. History of French Literature in the Seventeenth Century. A study of the origin and development of the various forms, with particular attention to the classic French theatre. Translation in class of the following:—Corneille, *Le Cid*, *Polyeucte*; Racine, *Andromaque*, *Britannicus*, *Athalie*; Molière, *L'Avare*, *Le Misanthrope*, *Le Médecin malgré lui*, *Le Bourgeois gentilhomme*, *Les Femmes savantes*; La Fontaine, *Selected Fables*. Memorizing of selected passages; lectures, themes, collateral reading, and reports. First Semester, fifty-four exercises, [3].

MR. LANGLEY.

12. Continuation of Course 11. Second Semester, fifty-four exercises, [3].

MR. LANGLEY.

13. History of French Literature in the Nineteenth Century. A study of the French and the foreign origins of romanticism in France; of the conflict between romanticism and classicism; of the origin and growth of realism; of the influence of the Northern literatures in France, and of the more recent movements in French literature. Lectures, reading in class, themes, weekly reports, and collateral reading. First Semester, fifty-four exercises, [3].

PROFESSOR DOW.

14. Continuation of Course 13. Second Semester, fifty-four exercises, [3].

PROFESSOR DOW.

GERMAN

ASSISTANT PROFESSORS STOUGHTON AND BURTON, DR. ROE,
AND MESSRS. HARDY AND HOWE

1. Elementary Course. (Joynes-Meissner's Grammar, Part I. Van Daell's Reader.) First Semester, fifty-four exercises, [3].

PROFESSOR STOUGHTON, DR. ROE, AND MR. HOWE.

2. Continuation of Course 1. Translation into German of connected English passages, based on texts read. Grammar (Joynes-Meissner, Part II); Von Hillern, *Höher als die Kirche*; Storm, *Immensee*; Arnold, *Fritz auf Ferien*. Sight translation. Second Semester, fifty-four exercises, [3].

PROFESSOR STOUGHTON, DR. ROE, AND MR. HOWE.

Students taking Course 1 must also take Course 2 the next Semester. Courses 1 and 2 are prescribed for Freshmen in the Latin-Scientific and the Chandler Scientific Courses who do not offer German for admission to college, and for Freshmen in the Classical Course who do not elect French on entering and are not eligible to Courses 3 and 4, or 5 and 6. Courses 1 and 2 may also be elected later than Freshman year by students in the Classical Course not qualified to enter a more advanced course.

1 a. Elementary Course. Grammar (Joynes-Meissner, Part I), Van Daell's Reader; Von Hillern, *Höher als die Kirche*. Translation into German of detached English sentences, based on the texts read. First Semester, seventy-two exercises, [4].

[Offered only in 1898-99.]

PROFESSOR BURTON, DR. ROE, AND MR. HOWE.

2 a. Continuation of 1 a. Storm, *Immensee*; Arnold, *Fritz auf Ferien*; Freytag, *Die Journalisten*. Translation into German of connected English passages, based on texts read. Grammar continued (Joynes-Meissner, Part II). Sight translation. Second Semester, seventy-two exercises, [4].

[Offered only in 1898-99.]

PROFESSORS STOUGHTON AND BURTON AND MR. HOWE.

2 b. Continuation of Course 1 a. Storm, *Immensee*; Arnold, *Fritz auf Ferien*. Translation into German of connected English passages, based on texts read. Grammar continued (Joynes-Meissner, Part II). Sight translation. Second Semester, thirty-six exercises, [2].

[Offered only in 1898-99.]

PROFESSOR STOUGHTON AND MR. HOWE.

Courses 1 a and 2 a are prescribed for Sophomores in the Latin-Scientific and Chandler Scientific Courses who did not offer German for entrance. Courses 1 a and 2 b are prescribed for Sophomores in the Classical Course who did not offer German for entrance.

3. Advanced Course. Classical Drama, — Selected plays of Schiller, Lessing, and Goethe. Review of Syntax; Grammar (Joynes-Meissner, Part III), with translations into German to illustrate the principles. First Semester, fifty-four exercises, [3]. MR. HOWE.

4. Continuation of Course 3. Prose, — Freytag, *Soll und Haben*; Heine, *Die Harzreise*. Composition. Second Semester, fifty-four exercises, [3]. MR. HOWE.

Courses 3 and 4 are prescribed for Freshmen in the Latin-Scientific and the Chandler Scientific Courses who offered German for admission to college. They may be taken instead of 1 and 2 by Freshmen in the Latin-Scientific and Chandler Scientific Courses who have had an amount of German equivalent to the requirements for admission, but did not offer German for entrance. They may be elected by Freshmen in the Classical Course who have had an amount of German equivalent to the requirements for admission to the Latin-Scientific and Chandler Scientific Courses.

3 a. Advanced Course. Classical Drama, — Selected plays of Schiller, Lessing, and Goethe. Review of Syntax; Grammar (Joynes-Meissner, Part III), with translation into German to illustrate the principles. First Semester, seventy-two exercises, [4].
[Offered only in 1898-99.] MR. HOWE.

4 a. Continuation of Course 3 a. Prose, — Freytag, *Soll und Haben*; Selections from Heine's Prose. Composition. Second Semester, seventy-two exercises, [4].
[Offered only in 1898-99.] MR. HOWE.

Courses 3 a and 4 a are prescribed for Sophomores who offered German for entrance.

5. Schiller, *Wilhelm Tell*; Goethe, *Dichtung und Wahrheit*, *Sesenheim*. More comprehensive study of Syntax; Grammar (Joynes-Meissner, Part III), with translation into German to illustrate the principles. Sight translation. First Semester, fifty-four exercises, [3].

PROFESSOR STOUGHTON AND MR. HARDY.

6. Continuation of Course 5. Freytag, *Soll und Haben*. German Lyrics and Ballads. Composition. Second Semester, fifty-four exercises, [3]. PROFESSOR STOUGHTON AND MR. HARDY.

Courses 5 and 6 are elective for all students who have taken 1 and 2, may be taken instead of 1 and 2 by Freshmen in the Latin-Scientific and Chandler Scientific Courses who have had an equivalent of those courses and did not offer German for entrance, and are elective for Freshmen in the Classical Course who have had an equivalent of Courses 1 and 2; also elective after Freshman year by students in the Classical Course who have had the equivalent of Courses 1 and 2.

5 a. Schiller, *Wilhelm Tell*; Lessing, *Minna von Barnhelm*. More comprehensive study of Syntax; Grammar (Joynes-Meissner, Part III), with translation into German to illustrate the principles. First Semester, seventy-two exercises, [4].

[Offered only in 1898-99.]

PROFESSOR STOUGHTON.

6 a. Freytag, *Soll und Haben*; German Lyrics and Ballads; a number of lyrics committed to memory. Composition. Second Semester, seventy-two exercises, [4].

[Offered only in 1898-99.]

PROFESSOR STOUGHTON.

7. Elementary Course in Composition and Conversation. Open to students who have passed in 1 and 2. First Semester, thirty-six exercises, [2].

[Offered in 1899-1900.]

MR. HARDY.

8. Continuation of Course 7. Second Semester, thirty-six exercises, [2].

[Offered in 1899-1900.]

MR. HARDY.

9. Advanced Course in Composition and Conversation. Open to students who have passed in 3 and 4, or 5 and 6. First Semester, thirty-six exercises, [2].

[Offered in 1899-1900.]

PROFESSOR STOUGHTON.

10. Continuation of Course 9. Second Semester, thirty-six exercises, [2].

[Offered in 1899-1900.]

PROFESSOR STOUGHTON.

11. Goethe, *Faust*, Part I and portions of Part II. Composition. First Semester, fifty-four exercises, [3]. PROFESSOR STOUGHTON.

12. Classical Drama, — Lessing, *Nathan der Weise*; Schiller, *Wallensteins Tod*; Goethe, *Egmont*. Composition. Second Semester, fifty-four exercises, [3]. PROFESSOR STOUGHTON.

13. History of German Literature in the Eighteenth and Nineteenth Centuries. Reading of the most important works in prose and poetry. Collateral reading. First Semester, fifty-four exercises, [3]. [Offered in 1900-1901.] PROFESSOR STOUGHTON.

14. Continuation of Course 13. Second Semester, fifty-four exercises, [3]. [Offered in 1900-1901.] PROFESSOR STOUGHTON.

15. Middle High German, — *Nibelungen Lied*; Hartmann, *Der arme Heinrich*; Wolfram, *Parcival*; Walther von der Vogelweide. Old High German, — Braune, *Althochdeutsches Lesebuch*. First Semester, fifty-four exercises, [3]. [Offered in 1900-1901.] MR. HARDY.

16. Continuation of Course 15. Second Semester, fifty-four exercises, [3]. [Offered in 1900-1901.] MR. HARDY.

MATHEMATICS

PROFESSORS SHERMAN AND WORTHEN AND MESSRS. POOR AND PROCTOR

1. Algebra. Quadratic and indeterminate equations, ratio and proportion, variation, series, binomial formula, logarithms, permutations and combinations, theory of equations, graphic algebra. (Wells' College Algebra.) First Semester, seventy-two exercises, [4].

PROFESSORS SHERMAN AND WORTHEN AND MESSRS. POOR AND PROCTOR.

1 a. Algebra. Logarithms, permutations and combinations, probability, continued fractions, summation of series, theory of equations, graphic algebra. (Wells' College Algebra.) First Semester, forty-eight exercises, [4]. PROFESSOR SHERMAN.

2. Solid Geometry, with original demonstrations and the solution of problems relating to the surfaces and volumes treated, (Phillips and Fischer). Second Semester, thirty exercises, [4].

PROFESSORS SHERMAN AND WORTHEN AND MESSRS. POOR AND PROCTOR.

3. Plane Trigonometry, with applications to problems in surveying, (Crawley). Second Semester, twenty-eight exercises, [4].

PROFESSORS SHERMAN AND WORTHEN AND MESSRS. POOR AND PROCTOR.

4. Spherical Trigonometry, (Crawley). Second Semester, sixteen exercises, [4].

PROFESSORS SHERMAN AND WORTHEN AND MESSRS. POOR AND PROCTOR.

4 a. Spherical Trigonometry, with applications to geodesy and astronomy, (Crawley). First Semester, twenty-four exercises, [4].

PROFESSOR SHERMAN OR PROFESSOR WORTHEN.

5. Plane Analytic Geometry, including Higher Plane Curves, (Hardy). First Semester, forty exercises, [4].

PROFESSORS SHERMAN AND WORTHEN.

5 a. Plane Analytic Geometry, including Higher Plane Curves, (Tanner and Allen). Second Semester, fifty-two exercises, [4].

PROFESSOR SHERMAN OR PROFESSOR WORTHEN.

6. Analytic Geometry of three dimensions, (Hardy). First Semester, sixteen exercises, [4].

PROFESSORS SHERMAN AND WORTHEN.

6 a. Analytic Geometry of three dimensions, (Tanner and Allen). Second Semester, twenty exercises, [4].

PROFESSOR SHERMAN OR PROFESSOR WORTHEN.

7. Differential Calculus, with geometrical applications, (Taylor). First Semester, sixteen exercises, [4].

PROFESSORS SHERMAN AND WORTHEN.

7'. Differential Calculus, continued. Second Semester, thirty-two exercises, [4].

PROFESSORS SHERMAN AND WORTHEN.

7 a. Differential Calculus, with geometrical applications, (McMahon and Snyder). First Semester, seventy-two exercises, [4].

PROFESSOR SHERMAN OR PROFESSOR WORTHEN.

8. Integral Calculus, with applications to analytic geometry, (Taylor). Second Semester, forty exercises, [4].

PROFESSORS SHERMAN AND WORTHEN.

8 a. Integral Calculus, with applications to analytic geometry and including the elements of Differential Equations, (Murray). Second Semester, fifty-four exercises, [3].

PROFESSOR SHERMAN OR PROFESSOR WORTHEN.

9. Theory of Error and Least Squares, (Johnson). Second Semester, eighteen exercises, [1].

PROFESSOR WORTHEN.

Courses 1, 2, 3, 4, 5, 6, 7, 7', 8, and 9 are intended for those who enter with Mathematics I; Courses 1 a, 4 a, 5 a, 6 a, 7 a, 8 a, and 9, are intended for those who enter with Mathematics II. Either of the above series is essential for the pursuit of the advanced courses in Engineering, Physics, and Astronomy.

10. Analytic Mechanics. This course is described under Physics 4, (Williamson and Tarlton). First Semester, fifty-four exercises, [3].

MR. POOR.

11. Solution of Transcendental and Higher Algebraic Equations, (Merriman). First Semester, eighteen exercises, [1].

PROFESSOR SHERMAN.

12. Determinants, (Weld). First Semester, thirty-six exercises, [2].

PROFESSOR SHERMAN.

13. Hyperbolic Functions, (McMahon). Second Semester, eighteen exercises, [1].

PROFESSOR WORTHEN.

14. Differential Equations, (Murray). Second Semester, thirty-six exercises, [2].

PROFESSOR WORTHEN.

15. Quaternions, (Hardy). First Semester, thirty-six exercises, [2].

PROFESSOR WORTHEN.

1900

16. Projective Geometry, (Reye). First Semester, thirty-six exercises, [2]. PROFESSOR SHERMAN.

17. Theory of Functions, (Durege). Second Semester, thirty-six exercises, [2]. PROFESSOR WORTHEN.

18. Elliptic Functions, (Baker). Second Semester, thirty-six exercises, [2]. PROFESSOR SHERMAN.

GRAPHICS

PROFESSORS SHERMAN AND HAZEN

1. Freehand Drawing. Prescribed in the Chandler Scientific Course. (Chapman's Elementary Drawing Book.) First Semester, fifty-four exercises, [3]. PROFESSOR SHERMAN.

1 a. Freehand Drawing. This course is a continuation of Course 1. Second Semester, twenty-one exercises, for the first seven weeks, [3]. PROFESSOR SHERMAN.

2. Mechanical Drawing. This course begins with a study of the instruments and materials used, and the methods of caring for them, and includes the construction of architectural and mechanical figures, and the first lessons in shading, tinting, and lettering. (Mahan's Industrial Drawing.) Second Semester, thirty-three exercises, [3]. PROFESSOR HAZEN.

Course 2 is required for admission to the Thayer Engineering Course.

3. Descriptive Geometry, as applied to the representation by drawings or projections, of all geometrical magnitudes and the intersections and tangencies of developable, double-curved, and warped surfaces. (Church's Descriptive Geometry.) First Semester, fifty-four exercises, [3]. PROFESSOR HAZEN.

3 a. Descriptive Geometry continued and applied to Spherical Projections, Shades and Shadows, and Linear Perspective. Second Semester, thirty-six exercises, [2]. PROFESSOR HAZEN.

Courses 3 and 3 a are required for the subsequent election of the Thayer Engineering Course.

4. **Mechanical Drawing.** This course includes projection drawing; the construction of sections from models and actual structures; the elements of perspective drawing; isometrical drawing; the principles of shading and tinting, the elements of architectural drawing and cabinet projections. Second Semester, twelve exercises, [3].

PROFESSOR HAZEN.

4a. **Mechanical Drawing.** This is a continuation of Course 4, with the addition of topographical drawing. First Semester, fifty-four exercises, [3].

PROFESSOR HAZEN.

Courses 4 and 4a are required for the subsequent election of the Thayer Engineering Course.

5. **Plotting of land, stadia, and railroad surveys.** First Semester, forty half-days.

PROFESSORS FLETCHER AND HAZEN.

This course constitutes a part of Thayer School Courses 2 and 3, and the half-days here given are included in the time allotted to those courses.

6. **Graphical Statics.** This includes the first principles and the determination of the stresses in roof and bridge trusses. Second Semester, ten half-days.

PROFESSOR HAZEN.

This course is a part of Thayer School Course 10, and the half-days here given are included in the time allotted to that course.

CIVIL ENGINEERING

COLLEGE — PROFESSOR HAZEN

THAYER SCHOOL — PROFESSOR FLETCHER

1. **Surveying with Level, Transit, and Compass;** the adjustments, care, and proper methods of using these instruments. This course includes the methods of determining areas; laying out and dividing land; practice with the solar transit used in surveying the Public Lands; determination of true meridian by the sun and polar star; levelling for profiles, city surveying, plotting, and computing from field notes taken in connection with the above work. Second Semester, fifty-four exercises, [3].

PROFESSOR HAZEN.

THAYER SCHOOL COURSES

(August 1 to September 14)

2. Surveying. Theory, adjustments, and use of instruments, including the transit, theodolite, level, plane-table, solar transit, sextant, aneroid barometer, and precise level; land surveying; topographical, hydrographical, and city surveying. Seventy-two half-days.

PROFESSOR FLETCHER.

3. Railroad Engineering. This course includes a reconnaissance, preliminary and location surveys, and estimates of a line from two to three miles long through a country as difficult as is ordinarily met with; also a study of the various forms of easement or transition curves. First Semester, fifty-eight half-days.

PROFESSOR HAZEN.

4. Higher Surveying. This course includes geodetical field-work and computations; the determination of latitude and time by the sextant and transit; azimuth by observations on the sun, Polaris, and some other star at elongation; also photography applied to surveying. Theory and applications of Least Squares. First Semester, fifty-six half-days.

PROFESSOR FLETCHER.

5. Analytical Mechanics and general applications; Kinematics, Dynamics; Statics and Kinetics. Principles and working conditions, including friction and various applications. Elements of Mechanism. First and second Semesters, sixty half-days.

PROFESSOR FLETCHER.

6. Masonry Constructions. This course includes a study of building stones, brick and mortar; the building of stone, brick, and artificial stone masonry; of foundations on land, on piles, and under water; of masonry dams, retaining walls, bridge abutments and piers, culverts and arches; a course in Practical Mineralogy and the testing of limes and cements in the laboratory. First Semester, fifty half-days.

PROFESSORS FLETCHER AND HAZEN.

7. Stone-cutting, including the discussion and designing of arches and wing walls. Second Semester, sixteen half-days.

PROFESSOR HAZEN.

8. Mechanics of Materials, including the theory of beams, columns, and shafts ; the methods of designing such elementary structures, and bridge and roof connections and joints. Second Semester, thirty half-days. PROFESSOR FLETCHER.

9. Highway Engineering. This course considers the approved methods of constructing McAdam, Telford, gravel, and common earth roads ; wood, stone, brick, and asphalt pavements for cities ; and the proper methods of maintaining country roads and city pavements. Second Semester, seventeen half-days. PROFESSOR HAZEN.

10. Roofs and Bridges, including analytical and graphical determination of the stresses in roof and bridge trusses. Design of a simple roof and bridge. Second Semester, forty half-days.

PROFESSOR HAZEN.

11. Materials of Engineering, including wood, building stones, and the manufacture of iron and steel, the methods of testing all of these materials, and a study of the machines used in making these tests. Second Semester, eighteen half-days. PROFESSOR FLETCHER.

PHYSICS

PROFESSORS EMERSON AND NICHOLS, ASSISTANT PROFESSOR CREHORE, AND MR. BACON

1. This is a general course for beginners, and is given by recitations and lectures with experiments. Note-books on the lectures are examined at the end of the Semester. The text-book used is Ames' Theory of Physics. This course includes :

(a) Dynamics, as applied to Solids, Liquids, and Gases, with numerous examples illustrating the principles.

(b) Sound, with problems.

(c) Heat, with many practical examples. First Semester, fifty-four exercises, [3].

PROFESSORS EMERSON AND NICHOLS.

2. This course is a continuation of Course 1, and includes :

(a) Electricity and Magnetism, with drawings and various examples.

(b) Light, with construction of images, and numerous problems. Second Semester, fifty-four exercises, [3].

PROFESSORS EMERSON AND NICHOLS

3. Practical Physics. Experiments in Dynamics of Solids, Liquids, and Gases, and a few experiments in Heat. (A library of reference books, containing the best laboratory manuals and text-books on Physics, is used by those taking this course.) First Semester, thirty-six exercises, two hours each, [2].

PROFESSOR EMERSON AND MR. BACON.

4. Analytic Mechanics. A recitation course in Dynamics, with numerous examples and applications of Calculus to physical problems; this course is limited to those who have studied Differential and Integral Calculus. (Williamson and Tarleton's Dynamics.) First Semester, fifty-four exercises, [3].

MR. POOR.

5. This course, a continuation of Course 3, is extended into the subjects of Sound, Light, and Electricity, and is restricted to those who have taken Course 3. Second Semester, fifty-four exercises, two hours each, [3].

PROFESSOR EMERSON AND MR. BACON.

6. Electricity. A course in the elementary theory of the alternating current, including the practical subjects of alternators, transformers, and electric lighting, with transmission of power; this course is restricted to those who have taken Course 4, and Course 14 in mathematics is recommended. Second Semester, thirty-six exercises, [2].

[Offered in 1899-1900.]

PROFESSOR CREHORE.

7 a. Advanced laboratory work in Physics, intended for those desiring to make more extended investigations than is possible in the elementary Courses 3 and 5. The student is thrown more upon his own resources, merely an outline of the work being given. First Semester, fifty-four exercises, two hours each, [3].

PROFESSOR EMERSON AND MR. BACON.

7. Radiation. A course in the principal phenomena and laws of optic and thermic radiation, conducted with the aid of texts, lectures, and laboratory work. This course is intended for men expecting to do advanced work in physics, and a knowledge of Analytic Geometry, the Calculus, and Differential Equations is a requisite, as well as Courses 1-5 in Physics. First Semester, fifty-four exercises, [3].

[Offered in 1899-1900.]

PROFESSOR NICHOLS.

8. A seminary course in the current periodical literature in physics, intended for advanced students. First Semester, thirty-six exercises, [2]. PROFESSORS EMERSON AND NICHOLS.

[Offered in 1899-1900.]

9. Radiation. A continuation of Course 7, including a similar treatment of electric radiations and a development of the experimental basis for the electro-magnetic theory of light. A laboratory course, aided by reference texts and lectures. Second Semester, fifty-four exercises, [3]. PROFESSOR NICHOLS.

[Offered in 1899-1900.]

10. A seminary course in the current periodical literature of physics. A continuation of Course 8. Second Semester, thirty-six exercises, [2]. PROFESSORS EMERSON AND NICHOLS.

[Offered in 1899-1900.]

The department of Physics offers the opportunity for graduate students to continue practical work in the laboratory, especially in the line of Radiation in the subjects of Heat, Light, and Electricity.

ASTRONOMY

PROFESSOR E. B. FROST AND MR. POOR

1. A recitation course in general descriptive Astronomy, supplemented by occasional lectures, and by frequent visits to the Observatory. The previous study of elective courses in mathematics is not necessary, but a knowledge of Analytic Geometry is desirable. (Young's General Astronomy.) Second Semester, fifty-four exercises, [3]. PROFESSOR FROST.

2. Spherical Astronomy. The knowledge of Analytic Geometry and Calculus is necessary for this course, which is planned to meet the needs of the students of Physics, Engineering, and Astronomy. It involves the practical study of the relations of spherical angles, and furnishes practice in the reduction of observations and in the art of computing. The observations consist chiefly in the determination of time and latitude by various methods with the Sextant, and in measuring zenith-distances with the Meridian Circle. This course is essential to the pursuit of further electives in Astronomy. (Campbell's Practical Astronomy.) Second Semester, thirty-six exercises, [2]. MR. POOR.

3. Practical Astronomy, at the Observatory. The student has been prepared by Course 2 for utilizing at once the fine weather of autumn for careful astronomical observations. The course includes the use of the Meridian Circle, in the determination of time, right ascensions, and personal equation; and of the Equatorial Telescope, in general observations upon the sun and interesting celestial objects, and in measurements with the Ring Micrometer. The method of least squares is briefly taken up. It will be understood that much more time will be required in reducing the observations than in securing them. (Campbell's and Chauvenet's Practical Astronomies.) First Semester, thirty-six exercises, [2].

MR. POOR.

4. Theoretical Astronomy, with practical computations of planetary and cometary motions. Knowledge of the Calculus is necessary, and that of Analytic Mechanics is very desirable for this course. (Klinkerfues' *Theoretische Astronomie*, Watson's Theoretical Astronomy, and other reference books.) Second Semester, thirty-six exercises, [2].

[Offered in 1899-1900.]

5. Astrophysics. This course includes the study of sun-spots, the determination of their positions and motions and of the rotation of the sun; the investigation of the various instruments employed in spectroscopy, with practical measurements; the application of photography to astronomical and spectroscopical work, and the study of variable stars. Knowledge of the Calculus is necessary for this course. (Frost's Scheiner's Astronomical Spectroscopy, and various reference books.) Second Semester, thirty-six exercises, [2].

[Offered in 1900-1901.]

CHEMISTRY

PROFESSOR BARTLETT AND DR. C. H. RICHARDSON

1. Chemistry of the Non-Metallic Elements. Illustrated lectures, with recitations, a text-book (Storer and Lindsay) being prescribed. In this course special emphasis is laid upon the General Principles of Chemistry, the Notation in its experimental and arithmetical meaning, upon Nomenclature and Terminology in their applications. Some familiarity with the properties of chemical substances and with processes is acquired.

2. The Metallic Elements, with especial reference to their sources, compounds, and practical uses. For the current year Courses 1 and 2 will be treated as a single continuous course. First Semester, fifty-four exercises, [3].

PROFESSOR BARTLETT.

3. Laboratory Work, illustrating and continuing Course 1, with demonstrations and short recitations daily. This course deals primarily with the preparation and properties of the more familiar elements and their compounds and with the preparation of some metallic salts. (Bartlett's Laboratory Exercises.) Second Semester, twenty-one exercises, two hours each, [3].

4. Laboratory Work. Qualitative Analysis. The identification of the basic and acid radicals by blowpipe and wet methods, with short recitations. For the current year Courses 3 and 4 will be treated as a single course. (A. A. Noyes's Qualitative Analysis.) Second Semester, thirty-three exercises, two hours each, [3].

PROFESSOR BARTLETT AND DR. RICHARDSON.

5. In place of Course 3 students who have had the equivalent of Courses 2 and 3 may begin at once upon a longer course of Qualitative Analysis. Second Semester, fifty-four exercises, two hours each, [3].

PROFESSOR BARTLETT AND DR. RICHARDSON.

6. The Carbon Compounds. Recitations and lectures with regular written reviews. (Remsen's Organic Chemistry.)

7. Laboratory Work, illustrating Course 6, based on standard manuals. Reactions and preparations. Courses 6 and 7 are about equally divided between one-hour recitations and two-hour laboratory exercises. First Semester, seventy-two exercises, [4].

DR. RICHARDSON.

8. Quantitative Analysis. A course in the Laboratory arranged from standard texts. Gravimetric and Volumetric methods with special applications. Second Semester, seventy-two exercises, two hours each, [4].

PROFESSOR BARTLETT.

Each course in chemistry is open only to students who have completed the preceding course, or its equivalent.

BIOLOGY

ZOÖLOGY AND BOTANY

PROFESSORS PATTEN AND JESUP AND DRs. GEROULD AND
JENNINGS

The courses in Zoölogy and Botany are designed for three classes of students, namely: (*a*) for those who wish to know something of the elementary principles and aims of the science; (*b*) for those who intend to study medicine; and (*c*) for those who expect to teach the natural sciences, or who for any reason are interested in the subject and wish to give it special attention.

Courses 1, 2, 3, 4, and 6 are elementary in character, and are intended for those who wish to get a comprehensive view of the subject. Those who intend to study medicine will find the following courses of especial value as a preparation for the study of human anatomy, physiology, and bacteriology: namely, Biology, 1, 2, 3, 4, 5, 8, and 9.

While the above named courses have been modeled to meet the requirements of the general student and of those who have a medical career in view, the symmetry and continuity of the entire series of courses has been maintained in order to meet the requirements of those who expect to teach the natural sciences or to become professional Biologists.

1. General Biology. This is an introductory course, consisting of two lectures a week given by Professor Patten, and two laboratory exercises a week under the charge of Dr. Jennings. A few examples of the simplest kinds of plants and animals, whose structure, action, and life-history illustrate important principles of the science, are selected for study in the laboratory. The lectures and supplementary reading treat of the distinctions between plants and animals, their relations to one another and to their environment, the theories that attempt to explain heredity, variation, the origin and perpetuation of existing forms of plants and animals, and the relations of fungi and bacteria to putrefaction, fermentation, and disease. (T. J. Parker's *Elementary Biology*, and collateral reading.) First Semester, seventy-two exercises, (4). PROFESSOR PATTEN AND DR. JENNINGS.

2. **Elementary Invertebrate Zoölogy.** This course treats of the structure, action, and life-history of invertebrate animals, and the problems that naturally arise from their consideration, such as the germ-layer theories, larval types, and the origin, structure, and function of fundamental tissues and organs. In the laboratory, examples of the more important groups of invertebrates are studied. (T. J. Parker's *Elementary Biology*, Shipley's *Zoölogy of the Invertebrata*, Marshall and Hurst, Brooks, etc.) Second Semester, seventy-two two-hour exercises, [4].
DR. JENNINGS.

3. **Cryptogamic Botany.** This course is designed to give a systematic survey of Cryptogamic plants. It will consist of the study of the life-history of representative plants from the Protophyta, Algæ, Fungi, Ferns, etc.: including such plants as Bacteria, Yeasts, and Parasitic Fungi. It will serve as an introduction to the further study of Botany, as well as to lay the foundations for a thorough knowledge of Bacteriology and Parasitology. First Semester, fifty-four exercises, [3].

[Offered in 1899-1900.]

4. **Comparative Anatomy of Vertebrates.** The course will consist of a careful study of the anatomy of Amphioxus, an ascidian, a fish, a reptile, an amphibian, and a bird. The outlines of the classification of vertebrates, the homologies and the histological structure of vertebrate organs, the theories of the structure of the vertebrate head, and of the derivation of the Chordata, will be discussed. The object of the course is to illustrate the evolution of the vertebrate type of animals from the lowest fishes and related forms, up to man, and to discuss some of the conditions that are coincident with, or determine the progressive modification of various vertebrate organs. The course is intended for those especially interested in Zoölogy, or for those who wish to lay a broad foundation for the study of human anatomy, physiology, or comparative psychology. (Wiedersheim's *Comparative Anatomy of Vertebrates*, Gray's *Anatomy*, Marshall and Hurst, and the embryological text-books of Minot, Hertwig-Mark, etc.) First Semester, fifty-four two-hour exercises, [3].

PROFESSOR PATTEN.

5. **Mammalian Anatomy.** In this course the more important facts concerning the structure and physiology of mammals are considered. The cat, rabbit, or dog, will be dissected, and further work done on various organs of larger mammals. This course is designed to form

a foundation for further work in Human Anatomy and physiology. Second Semester, fifty-four exercises, [3].

DR. JENNINGS.

6. Systematic and Structural Botany. Study of Vegetable Morphology and Classification in connection with the Phenogamic Flora of spring and early summer; laboratory work with the preparation of an herbarium. (Gray's Lessons and Manual, 6th edition.) Second Semester, fifty-four exercises, [3].

PROFESSOR JESUP.

7. Morphology and Physiology of Plants. A more detailed statement of the work to be done will be given in the next catalogue. First Semester, fifty-four exercises, [3].

[Offered in 1899-1900.]

8. Cytology. This course treats of the structure and activities of animal and plant cells. The structure of protoplasm, its physical and chemical properties, the theories of heredity, cell-division, and the effects of nutrition, stimulation, and exhaustion of cells are discussed. Second Semester, fifty-four exercises, [3].

PROFESSOR PATTEN.

9. Vertebrate Embryology. A study of the Embryology of the frog, the chick, and a mammal. Open only to those who have done satisfactory work in Biology 1, 2, 4, and 5. (Minot's Human Embryology, Hertwig's Embryology of Vertebrates, Marshall's Vertebrate Embryology.) Second Semester, seventy-two two-hour exercises, [4].

PROFESSOR PATTEN.

10. Morphology and Physiology of Plants. A more detailed statement of the work to be done will be given in the next catalogue.

[Offered in 1899-1900.]

A course in Human Anatomy, given by Dr. Gilman D. Frost in the Medical School, is open to Seniors in regular standing.

Graduate students may receive instruction in Animal Biology, the subject-matter varying with the requirements of each student. A reading knowledge of French and German is essential. In most cases a large part of the student's time will be devoted to investigation along lines indicated by the instructor.

During the year 1899 and after, graduate instruction will be offered in Botany.

GEOLOGY AND MINERALOGY

PROFESSOR HITCHCOCK AND DR. C. H. RICHARDSON

MINERALOGY

1. Chemical Mineralogy. Recitations, lectures, and laboratory work. The student will make use of the blowpipe and various reagents to determine the elements and compounds occurring as minerals. (Fraser's Tables.) Second Semester, thirty-six exercises, [2].

DR. RICHARDSON.

Open only to those who have taken two courses in Chemistry.

2. Crystallographic Mineralogy. (Williams' Text-book of Crystallography.) First Semester, eighteen exercises, [1].

[Offered in 1899-1900.]

PROFESSOR HITCHCOCK.

3. Petrography. This is a continuation of Courses 1 and 2. Minerals are first studied by the aid of polarized light, and secondly in their combinations as crystalline rocks. The work is done chiefly in the Laboratory. (For reference, Rosenbusch's Petrography, and its translation by Iddings.) First Semester, thirty-six exercises, [2].

[Offered in 1899-1900.]

PROFESSOR HITCHCOCK.

4. Chemical Mineralogy. This course embodies a careful investigation of the rare minerals, the precious metals, and the complex silicates. Special attention will be given to the origin of mineral deposits and to confirmatory chemical tests. (Reference will be made to Brush's Determinative Mineralogy and Dana's Manual of Mineralogy. Large edition.) Second Semester, thirty-six exercises. [2].

DR. RICHARDSON.

The course is open only to those who have taken Mineralogy 1 and Chemistry 1-4, inclusive.

GEOLOGY

1. (a) Physical Geology. This includes Dynamical, Structural, and Physiographical Geology, thus embracing the study of atmospheric, aqueous, organic, and igneous agencies, the structure of the earth's crust, origin and classification of mountains, and the effects of erosion upon topography.

1. (*b*) *Historic Geology.* This course takes up the study of the terranes of the earth's crust in the chronological order of their formation. It is the central feature of Geology, to which all other departments of the science are tributary. The evolution of the continent of North America, and Paleontology, or the study of extinct animals and plants, constitute parts of the course. It is expected that the illustrations pertaining to Historic Geology now in use will be greatly augmented when the Butterfield funds are available. Lectures and field excursions supplement the recitations whenever advisable. (Le Conte's *Elements of Geology.*) First Semester, fifty-four exercises, [3].

[Offered in 1899-1900.]

PROFESSOR HITCHCOCK.

2. This course will cover the same ground as course 1 (*a*) and (*b*) Recitations and lectures (Scott's *An Introduction to Geology*). First Semester, thirty-six exercises, [2].

DR. RICHARDSON.

3. *Mineral Resources of the United States.* Descriptive and statistical lectures on the occurrence, distribution, and production of the valuable minerals. References will be continually made to the volumes published by the Census Bureau, the Geological Survey, and the Mint, and to Rothwell's *Mineral Industries*. Second Semester, thirty-six exercises, [2].

PROFESSOR HITCHCOCK.

[Offered in 1899-1900.]

4. *Surface Geology.* A course of lectures and field exercises; for the latter, the facilities are remarkably favorable in the vicinity of the College. The topic is largely the Age of Ice, together with the peculiar phenomena attending the melting of the ice. The life of that age is also considered, both as to its distribution and as to its reference to the antiquity and early history of man. Second Semester, thirty-six exercises, [2].

[Offered in 1899-1900.]

PROFESSOR HITCHCOCK.

Graduate students and candidates for the degree of Ph.D. will engage in field-work in areas specially assigned, and apply the principles of Petrography to specimens of their own collection.

They will study the Reports of the several States, the larger manuals of Geikie and Dana, and special treatises, according to the particular subject assigned.

HISTORY

PROFESSOR FOSTER

The work in History requires extensive reading, with a development in quantity and quality as the courses advance. The student is therefore expected to do the greater part of his work in the departmental and general libraries. He should own an inexpensive atlas of general history (Putzger's, or Gardiner's English History Atlas), Ploetz's Epitome of Universal History for general reference, and one or more brief manuals for each course.

In all courses, the aims are to give students a permanent basis of facts, with increasing attention to the interpretation of these facts; some familiarity with the most valuable books; a training in historical method, with attention to elementary historical criticism, and "understanding by means of investigation."

To attain these aims, the following methods are used: Reading in the libraries and specified manuals, tested by recitations and by personal conferences on note-books with each student in every course; discussions of assigned questions; short reports, bibliographical, narrative, and critical; lectures, together with outlines of topics, references to books and criticisms of them, and directions for work; lectures illustrated by lantern slides; regular use of atlas and wall maps, and filling in of epoch outline maps.

1. (a) "Transition" Period and the "Middle Ages," from the Teutonic Migrations to Dante (375-1300, A.D.). Emerton, *Introduction*, and *Mediæval Europe*; Sheldon, *Studies in General History*; Putzger, *Historische Schul-Atlas*. Additional reading on topics and references assigned by Instructors, in Gibbon, *Decline and Fall of the Roman Empire*; Kingsley, *Roman and Teuton*; Bryce, *Holy Roman Empire*; Hodgkin, *Theodoric*, and *Italy and her Invaders*; Adams, *Civilization during the Middle Ages*; Milman, *Latin Christianity*; Einhard, *Life of Charlemagne*; Guizot, *History of Civilization*; and other books in department library:—tested by recitations, personal conferences on note-books, short written reports, and examination. Six outline maps. Illustrated lectures. First Semester, fifty-four exercises, [3].

PROFESSORS FOSTER AND DIXON.

1. (b) The Reformation Era and Modern History (1300-1715). Seebohm, *Era of the Protestant Revolution*; Wakeman, *Ascendancy of France, 1598-1715*; Gardiner, *Student's History of England, Vol. I*; Gardiner or Putzger, *Atlas*. Additional reading in: Bryce; Creighton, *History of the Papacy during the Reformation*; Green, *Short History of the English People*; Häusser, *Period of the Reformation*; Köstlin, *Luther*; Kitchin, *History of France*; Milman; Motley; Stubbs, *Constitutional History of England*; and other books in department library. Six outline maps. Recitations, conferences, and lectures. Second Semester, fifty-four exercises, [3].

PROFESSORS FOSTER AND DIXON.

2. The Era of the Protestant Reformation (1300-1563).

This course includes the Renaissance in Italy and the attempts at reform before the Lutheran Reformation, and gives a more full and critical treatment of the continental reformation than Course 1, especially of the nature and influence of Calvinism. Course 2 is closely connected with Course 4, is more advanced than Courses 3 and 5, and is intended for students having an especial interest in history. Four theses. Lectures and recitations. Creighton, *History of the Papacy during the Reformation*; Burckhardt, *Civilization of the Renaissance in Italy*; Häusser, *Period of the Reformation*; Ranke; Calvin, *Institutes*. A minimum of 2000 pages is required. First Semester, fifty-four exercises, [3].

[Offered in 1898-99.]

PROFESSOR FOSTER.

Courses 2 and 3 are given in alternate years.

3. The French Revolution and the Nineteenth Century. The first part of the course will consist of lectures on the causes and conditions, political, social, and economic, of the Revolution and Napoleonic Era, with recitations on the narrative as contained in H. M. Stephens, *Revolutionary Europe, 1789-1815*, or Gardiner, *French Revolution*, and the first part of Fyffe, *Modern Europe*. The later part will include lectures on the economic development of the Nineteenth Century, and recitations on Fyffe's *Modern Europe*. Conferences and examination on additional reading in: Lowell, *Era of the French Revolution*; Mignet; Stephens, *French Revolution*; Taine; Young's Travels, — for the Revolution; Lanfrey, Ropes, and Sloane, — for Napoleon; Andrews, McKenzie, Müller, — for later period. First Semester, fifty-four exercises, [3].

[Offered in 1899-1900.]

PROFESSORS FOSTER AND DIXON.

4. Colonial History to 1783. This course is intended to trace the genesis of the United States. It begins with the consideration of European conditions and colonial policies, especially of England, and traces the influence of both European and American experience on the development of American Institutions and the formation of the Union. Especial efforts are made to lead the students to apply historical methods by the use of accessible contemporary sources, either printed or in manuscript, such as local records of towns or churches. The results of at least one such piece of investigation are presented in a short critical report. This is of the same grade as Course 2, and more advanced than Course 5. Four reports, three outline maps. Lectures and recitations. Channing and Hart, *Guide to the Study of American History*; Thwaites, *Colonies*; Hart, *Formation of the Union*; Doyle, *English Colonies in America*; Lodge, *Colonies*; Winsor; Parkman. Second Semester, fifty-four exercises, [3].

[Offered in 1898-99.]

PROFESSOR FOSTER.

Courses 4 and 5 are given in alternate years.

5. History of the United States since 1783. This is a continuation of Course 4, but is less advanced, may be taken separately, and is more adapted to the general student. Four reports, including some use of public documents. Recitations and lectures. Channing and Hart, *Guide to the Study of American History*; Hart, *Formation of the Union*; Wilson, *Division and Reunion*; Fiske, *Critical Period*; Schouler, *United States*; Von Holst, *Constitutional History of the United States*; Henry Adams; Rhodes. Second Semester, fifty-four exercises, [3].

[Offered in 1899-1900.]

PROFESSOR FOSTER.

NOTE. — Greek History is taught in the Classical Course in connection with Greek; Roman History, in the Classical and Latin-Scientific Courses, in connection with Latin; English Constitutional History, in connection with Political Science; Economic History, in connection with Economics and Social Science.

ECONOMICS

ASSISTANT PROFESSOR DIXON

1. **Elementary Economics.** The analysis of modern industrial society and the derivation of economic laws. (Walker's Political Economy, [Elementary Course,] and Hadley's Economics.) First Semester, fifty-four exercises, [3].

PROFESSORS DIXON AND WELLS.

2. **English Economic History.** This is a study of industrial development in England from the eleventh century to the present time, and aims to show the origin of modern industrial rights and customs as a basis for an intelligent examination of present problems. Lectures and recitations. (Gibbins' Industry in England.) First Semester, fifty-four exercises, [3].

PROFESSOR DIXON.

3. **Economic Problems in the United States.** This course treats in a brief manner some of the unsettled questions in political economy under discussion in the United States. Among the problems studied are the following: The Money Question, The Railway Problem, Immigration, Commercial Crises, Free-trade and Protection, the Labor and Monopoly Problem, Labor Legislation, and Proposals for Industrial Reform. Lectures and recitations. (Noyes' Thirty Years of American Finance and Stimson's Labor in its Relation to Law.) Second Semester, fifty-four exercises, [3].

PROFESSOR DIXON.

Open only to students who have taken Courses 1 and 2.

4. **Theoretical Economics.** This course will be conducted on the reading and conference plan. With a text-book as a basis, a large amount of reading will be required in the writings of the economists, with the purpose of acquainting the student with the development of economic theory. Especial attention will be paid to the influence of historical conditions upon these theories. (Ingram's History of Political Economy.) Second Semester, thirty-six exercises, [2].

PROFESSOR DIXON.

Advanced Course, open only to students who have taken Courses 1 and 2, and have had or are then taking Course 3.

POLITICAL SCIENCE

PROFESSOR COLBY

1. The State (Elements of Politics). This course is historical as well as comparative and critical. It treats of the origin and development of the State, its forms, functions, and ends. It includes a brief study of the governments of Greece and Rome, the Teutonic (Mediæval) Polity and comparison of the present constitutions of England, France, Germany, and the United States. Recitations and lectures. Second Semester, thirty-six exercises, [2].

A course in The American Commonwealth (Bryce) may be substituted for Course 1 in 1898-99.

2. American Constitutional Law. This course is designed to give students a knowledge of the general principles of the Constitutional Law of the United States, both federal and statal. Particular attention is given to the origin and development of American political institutions, to the formation of State governments, and to the immediate causes of the adoption of the Federal Constitution and to its text. Recitations and lectures. (Cooley's Principles of Constitutional Law.) First Semester, fifty-four exercises, [3].

3. Elementary Law (Outlines of Jurisprudence). This course is intended for students who expect to enter the profession of law, and is planned to give a general view of the whole field of the law and an introduction to its terminology and its fundamental ideas. It consists of (a) an historical survey of the Roman Law and of the English Common Law, and (b) a critical examination of the fundamental ideas in both these systems of law. Recitations and lectures. First Semester, seventy-two exercises, [4].

4. Comparative Constitutional Law. This course is intended for students who expect to enter the profession of law, and includes (a) a study of the theory of the State, sovereignty, and liberty, and (b) a critical comparison of the governments of England, France, Germany, and the United States. Lectures and recitations. Second Semester, fifty-four exercises, [3].

5. **Public Finance.** An elementary course, treating of public expenditure, revenues, indebtedness, and financial administration. Recitations and lectures, with reports by each student on assigned readings. (Plehn's Introduction to Public Finance.) Second Semester, twenty-seven exercises, for the first nine weeks, [3].

6. **International Law.** This course is historical and explanatory of present international relations. It treats of the origin and development of the rules that generally govern the intercourse of modern civilized states, the most important European treaties since 1648, and subjects of present interest in American Diplomacy. Lectures and readings. (Snow's Cases on International Law.) Second Semester, twenty-seven exercises, for the last nine weeks, [3].

SOCIOLOGY

PROFESSOR WELLS

1. **Anthropology and Ethnology.** This course is preliminary, and is a study of the physical basis of society. It considers man's place in nature, and the human races and varieties, both historical and descriptive. Text and lectures. First Semester, fifty-four exercises, [3].

2. **Sociology proper.** An analysis of the facts of social life, historical and statistical. Social uniformities and tendencies. Text and lectures.

3. **Applied Sociology.** Charities, Crime, Problems of Urban Life and Social Selection, Socialism. Text and lectures. Second Semester, fifty-four exercises, [3].

Course 1 is offered this year as an elective in the First Semester to the Seniors and in the Second Semester to the Juniors. Courses 2 and 3 will be treated as one course this year in the Second Semester; hereafter Course 2 will be an elective in the First Semester and Course 3 in the Second Semester.

PHILOSOPHY

PROFESSOR CAMPBELL

1. **Logic. Historical Development.** History of Thinking to the completion of the Science of Logic under Aristotle. Lectures, recitations, and readings. First Semester, thirty-six exercises, [2].

2. Formal Logic. Study of the formation and uses of Concepts and Judgments in the Syllogism, together with a discussion of Fallacies. (Davis' Deductive Logic.) First Semester, thirty-six exercises, [2].

[Offered in 1899-1900.]

3. Psychology. Elementary Course. Outlines of the science. Lectures, recitations, and readings. Second Semester, thirty-six exercises, [2].

All Juniors are required to elect one of the first three courses in Philosophy.

4. Advanced Psychology. Philosophy of the mental life, physiological and comparative. Recitations, discussions, and theses. (Wundt's Human and Animal Psychology.) First Semester, fifty-four exercises, [3].

5. History of Philosophy. Ancient period, including the Socratic era. An outline of the Genesis of Civilization, pre-historic and historic. Lectures, recitations, and readings. First Semester, thirty-six exercises, [2].

6. Philosophy of the Fine Arts. Historical development and classification. Recitations and lectures with photographic and stereopticon illustrations. (Kedney, Hegel's *Æsthetics*.) First Semester, thirty-six exercises, [2].

7. Ethics. Historical, theoretical, and practical. A constructive study of the Rights and Duties of Man in his Moral Environment. Lectures and discussions. Second Semester, thirty-six exercises, [2].

8. Modern Philosophy. Developments of thinking since the Reformation, including existing schools of Philosophy. Lectures, with recitations and readings. Second Semester, thirty-six exercises, [2].

9. Philosophy of Education. A study of the genesis of the mental processes. (Harris' *Psychologic Foundations of Education*.) Second Semester, eighteen exercises, [1].

[Offered in 1899-1900].

GRADUATE COURSES

10. Systematic Philosophy. Independent investigation at the sources of some important philosophical work, ancient or modern. Selection may be made from Greek, Latin, German, French, or English texts. It is the aim to develop a competency for exact research according to the methods of recent literary and historical criticism. First Semester.

11. Advanced Ethics. Study and discussion of Kant's *Kritik der praktischen Vernunft*, or of Green's Prolegomena. Second Semester.

DIVINITY

* DR. S. C. BARTLETT

1. History of the English Bible (see English 6a). Second Semester, thirty-six exercises, [2]. PROFESSOR RICHARDSON.

2. Theism. Its evidences, scope, and limitations; nature and the supernatural; connection of natural and revealed religion; pagan light; objections and evasions. Pantheism, Agnosticism, Materialism, and atheistic forms of Evolution. Lectures, with references to Valentine's Natural Theology.

3. Evidences of Christianity. Text-book, Hopkins's Evidences of Christianity, supplemented by lectures, completing the external evidences, showing the historic influences of Christianity, and the various forms of assault upon it.

4. The Old Testament in its relations to History and Science. The creation and flood narratives, and the early history in general; Babylonian, Assyrian, and Egyptian connections; the Hebrews and their home; the Exodus route; relations of Mosaic and modern legislation; the wine question, and other special topics; difficulties considered; translations; the literary qualities and their influence; the universality of the Bible. Lectures, with references to Bartlett's Veracity of the Hexateuch.

5. Hebrew. This course is described under Hebrew 1. Second Semester, fifty-four exercises, [3]. DR. HUNTINGTON.

* Deceased November 16, 1898.

BIBLIOLOGY

PROFESSOR BISBEE

1. Origin, history, and use of manuscripts, books, and libraries. Lectures and practical work in bibliography tending to secure familiarity with works of general reference, and with the equipment for the study of different departments of literature and science. First Semester, thirty-six exercises, [2].

PHYSICAL CULTURE

DR. CARLETON

1. Lectures on Human Anatomy and Physiology, illustrated by means of the models of the Medical College; followed by lectures on Personal Hygiene. First Semester, ten exercises, [1].

2. A gymnastic exercise of one hour's duration is required on four afternoons a week from about December 1 until April.

OUTLINE OF STUDIES

FRESHMAN YEAR

C indicates Classical Course.

L indicates Latin-Scientific Course.

S indicates Chandler Scientific Course.

All courses have the same studies after Sophomore year.

FIRST SEMESTER

C		L		S	
PRESCRIBED		PRESCRIBED		PRESCRIBED	
	hrs.		hrs.		hrs.
Greek 1	3	French 3, or }		French 3, or }	
Latin 1, 2	3	German 3 }	3	German 3 }	3
English 1 a, 1 b	3	Latin 1, 2,	3	Graphics 1	3
Mathematics 1	4	English 1 a, 1 b	3	English 1 a, 1 b	3
	—	Mathematics 1	4	Mathematics 1 a, 4 a	4
	13		13		13
ELECTIVE (choose one)		ELECTIVE (choose one)		ELECTIVE (choose one)	
	hrs.		hrs.		hrs.
French 1	3	German 1	3	German 1	3
German 1	3	French 1	3	French 1	3
	— 3		— 3		— 3
	16		16		16

SECOND SEMESTER

C		L		S	
PRESCRIBED		PRESCRIBED		PRESCRIBED	
	hrs.		hrs.		hrs.
Greek 2	3	French 4, or }		French 4, or }	
Latin 2, 3	3	German 4 }	3	German 4 }	3
English 2 a, 2 b	3	Latin 2, 3	3	English 2 a, 2 b	3
Mathematics 2, 3, 4	4	English 2 a, 2 b	3	Mathematics 5 a, 6 a	4
	—	Mathematics 2, 3, 4	4		—
	13		13		10
ELECTIVE (choose one)		ELECTIVE (choose one)		ELECTIVE (choose two)	
	hrs.		hrs.		hrs.
French 2	3	German 2	3	German 2 }	
German 2	3	French 2	3	French 2 }	3
	— 3		— 3	Graphics 1 a, 2 }	
	16		16	Chemistry 2 }	3
				Biology 2 }	— 6
					16

Students presenting Mathematics II will take the Mathematics prescribed in the Chandler Scientific Course; those presenting only Mathematics I will take the Mathematics prescribed in the Classical or Latin-Scientific Courses.

SOPHOMORE YEAR

c indicates Classical Course.

L indicates Latin-Scientific Course.

s indicates Chandler Scientific Course.

All courses have the same studies after Sophomore year.

FIRST SEMESTER

C PRESCRIBED		L PRESCRIBED		S PRESCRIBED	
	hrs.		hrs.		hrs.
German 1 a	4	German 1 a, or }		German 1 a, or }	4
English 1 c	2	German 3 a }	4	German 3 a }	4
History 1 a	3	English 1 c	2	English 1 c	2
Physics 1	3	History 1 a	3	History 1 a	3
	<hr/>	Physics 1	3	Physics 1	3
	12		<hr/>		<hr/>
			12		12
ELECTIVE (choose one)		ELECTIVE (choose one)		ELECTIVE (choose one)	
	hrs.		hrs.		hrs.
Greek 6	}	Latin 4 a	}	English 3 a, 3 b	}
Latin 4 a		English 3 a, 3 b		Mathematics 7 a	
English 3 a, 3 b		Mathematics 5, 6, 7		Biology 1	
Mathematics 5, 6, 7		Biology 1			
Biology 1	4		<hr/>		<hr/>
	<hr/>		16		16
	16				

SECOND SEMESTER

C PRESCRIBED		L PRESCRIBED		S PRESCRIBED	
	hrs.		hrs.		hrs.
German 2 b	2	German 2 a, or }		German 2 a, or }	4
French 1 a	4	German 4 a }	4	German 4 a }	4
History 1 b	3	English 4 a	2	English 4 a	2
Physics 2	3	History 1 b	3	History 1 b	3
	<hr/>	Physics 2	3	Physics 2	3
	12		<hr/>		<hr/>
			12		12
ELECTIVE (choose one)		ELECTIVE (choose one)		ELECTIVE (choose one)	
	hrs.		hrs.		hrs.
Greek 7	}	Latin 5 a	}	Mathematics 8 a, 9 }	}
Latin 5 a		Mathematics 7', 8 }		Biology 2	
Mathematics 7', 8		Biology 2		English 4 b	
Biology 2		English 4 b		English 6 a	
English 4 b	2	English 6 a	2		<hr/>
English 6 a	2		<hr/>		4
	<hr/>		4		<hr/>
	4		<hr/>		16
	<hr/>		16		
	16				

After 1898-1899, the prescribed work will cover 6 hours and the elective 10 hours.

JUNIOR YEAR

FIRST SEMESTER

PRESCRIBED	
Economics 1	3 hrs.
English 7	3 "
<hr/>	
	6 hrs.

ELECTIVE

Greek 11	3 hrs.
Greek 13	3 "
Latin 8	4 "
Latin 10	3 "
French 11	3 "
German 5a	4 "
Mathematics 11	1 "
Mathematics 12	2 "
Graphics 3	3 "
Physics 3	2 "
Physics 4	3 "
Chemistry 1, 2	3 "
Biology 3	3 "
Biology 4	3 "
History 2	3 "
Economics 2	3 "
Philosophy 1	2 "
Bibliology 1	2 "

(Each student must elect 9
or 10 hours).

SECOND SEMESTER

PRESCRIBED	
Political Science 1	2 hrs.
Philosophy 3 ¹	2 "
<hr/>	
	4 hrs.

ELECTIVE

Greek 10	3 hrs.
Greek 14	3 "
Latin 12	3 "
Latin 14	2 "
Latin 15	2 "
English 8	3 "
French 12	3 "
German 6a	4 "
Mathematics 13	1 "
Mathematics 14	2 "
Graphics 3a	2 "
Engineering 1	3 "
Physics 5	3 "
Astronomy 1	3 "
Astronomy 2	2 "
Chemistry 3, 4 (or 5)	3 "
Biology 5	3 "
Biology 6	3 "
Mineralogy 1	2 "
History 4	3 "
Economics 3	3 "
Economics 4	2 "
Sociology 1	3 "
Philosophy 3	2 "

(Each student must elect 12
to 14 hours).

Studies with classes below, not previously taken, may be elected.

¹ Prescribed for those who did not elect Philosophy 1 in the First Semester.

SENIOR YEAR

FIRST SEMESTER		SECOND SEMESTER	
ELECTIVE		ELECTIVE	
Greek 8	3 hrs.	Greek 10	3 hrs.
Greek 11	3 "	Greek 12	3 "
Greek 15	3 "	Greek 16	3 "
Latin 8	4 "	Latin 12	3 "
Latin 10	3 "	Latin 14	2 "
English 9	3 "	Latin 15	2 "
French 13	3 "	Hebrew 1	3 "
German 11	3 "	English 10	3 "
Mathematics 15	2 "	French 14	3 "
Mathematics 16	2 "	German 12	3 "
Physics 7 a	3 "	Mathematics 17	2 "
Astronomy 3	2 "	Mathematics 18	2 "
Chemistry 6, 7	4 "	Physics 7	3 "
Human Anatomy 1	3 "	Chemistry 8	4 "
Geology 2	2 "	Human Anatomy 2	2 "
History 2	3 "	Biology 8	3 "
Political Science 2	3 "	Biology 9	3 "
Political Science 3	4 "	Mineralogy 4	2 "
Sociology 1	3 "	History 4	3 "
Philosophy 4	3 "	Economics 4	2 "
Philosophy 5	2 "	Political Science 4	3 "
Philosophy 6	2 "	Political Science 5, 6	3 "
		Sociology 2, 3	3 "
		Philosophy 7	2 "
		Philosophy 8	2 "
(Each student must elect 14 to 16 hours.)		(Each student must elect 14 to 16 hours.)	

Studies with classes below, not previously taken, may be elected.

THAYER COURSE

Engineering 2	72 half-days	Engineering 6	50 half-days
Engineering 3	58 "	Engineering 7	16 "
Engineering 4	56 "	Engineering 8	30 "
Graphics 5	40 "	Engineering 9	17 "
Engineering 5	60 "	Engineering 10	40 "
		Engineering 11	18 "
		Graphics 6	10 "

RULES GOVERNING THE ELECTION OF STUDIES

(1) Every student, in making his elections, must meet the requirements and conform to the conditions of the studies he may choose, as set forth above in the "Departments of Instruction," and in the "Outline of Studies." The choice of any elective involves the same requirement in respect to attendance and scholarship as for a prescribed study.

(2) Elections for each Semester must be communicated to the Dean, in writing, on or before the last Saturday but two of the Semester preceding.

(3) A student may elect studies assigned to a class below his own. No student will be allowed to elect a study with a class above his own, or any group of electives involving with his required courses more than a total number of sixteen exercises a week, except by vote of the Faculty.

(4) Any student failing to make his elections at the specified time shall pay to the College Treasurer three dollars.

(5) Any student who, having made his elections, desires to change, shall make written application to the Dean, with a statement in full of his reasons; but

(6) No changes from one elective study to another may be made after the student has begun work in the study first chosen.

(7) The Faculty will ordinarily withdraw any elective study not chosen by at least four students.

The same number of exercises, prescribed and elected, is required in each of the three courses.

In the Freshman year, thirteen exercises a week are prescribed, and three exercises a week must be elected.

In the Sophomore year, twelve exercises a week are prescribed, and four exercises a week must be elected.

In the Junior year, on the average about one-fourth of the exercises are prescribed.

In the Senior year, all exercises are elective. Optional studies also are offered during this year.

EXAMINATIONS

The regular examinations in each course of study are held in the middle and at the close of the year.

A student who fails to pass any regular examination will have but one opportunity to make good the deficiency, and failing in this second trial, which must be taken in the half-year following the original examination, he will be obliged to repeat the course with the next class.

REPORTS OF STANDING

A report is sent twice yearly to the parent or guardian of each student, giving his standing in the class.

The standing given is, except where there are unremitted absences, the general average for scholarship. This average is determined by combining the average of recitation marks with that of examination marks in all the studies of the term, in the ratio of three to one.

Upon the scale used, 100 is the highest, and 0 the lowest mark; but no standing is obtained when the student's recitation or examination mark is below fifty in any study.

For each unremitted absence from church and chapel, standing is lowered *one*. (Thus an average for scholarship of 85, with three unremitted absences, gives a standing of 82.)

The student's rank is determined by his position in one of six grades, viz.: Excellent, (E.); Very Good, (V. G.); Good, (G.); Fair, (F.); Poor, (P.); Deficient, (D.); corresponding to the numerical averages, 93-100; 85-92; 75-84; 65-74; 50-64; 0-49.

The co-operation of parents with the Faculty is earnestly solicited, in their efforts to maintain a high standard of scholarship and deportment in the College, and to promote the welfare of all committed to their care.

ATTENDANCE AT EXERCISES

In Freshman year, attendance is required continuously through each term, at the morning, forenoon, and afternoon exercises. For Sophomore, Junior, and Senior years, the hours at which exercises occur are announced in a time-table published each Semester.

The *morning* exercise takes place on each week-day, either at 8.10 A.M., or (when there are two divisions in a subject) at 8.10 and 9 A.M. The *forenoon* exercise takes place on each week-day either at 11 A.M., or at 10 and 11 A.M. (In winter the morning and forenoon exercises begin one half-hour later.) The *afternoon* exercise takes place on Mondays, Tuesdays, Thursdays, and Fridays, either at 3 P.M., or at 2 and 3 P.M.

Attendance is further required of all students at daily college prayers, on week-days at 7.50 A.M. (in winter 8.15 A.M.), and on Sundays at 5.30 P.M. ; also at public worship on Sunday forenoon.

DEGREES

The degrees of Bachelor of Arts, Bachelor of Letters, and Bachelor of Science are conferred by the Board of Trustees, on the recommendation of the Faculty, upon those who have duly completed the Classical, Latin-Scientific, and Chandler Scientific courses, respectively. For degrees with Honors, see page 135.

The degrees of Master of Arts, Master of Science, and Doctor of Philosophy will be conferred under the following conditions :

(1) The degree of M.A. will be conferred upon Bachelors of Arts and Bachelors of Letters of the College of at least two years' standing, who shall have pursued, under the approval of the Faculty, a course of liberal, non-professional study, in residence at the College, of not less than one year, or, provided the approval of the Faculty shall have been first obtained, in the graduate department of any other College or University for a similar period, and shall have passed an examination upon such course of study with high credit, and presented a satisfactory thesis upon the special subject of such study.

(2) The degree of M.A. will also be conferred upon Bachelors of Arts and Bachelors of Letters of the College of at least three years' standing, who shall have pursued, under the approval of the Faculty, a course of liberal, non-professional study, while not in residence at any College or University, for a period equivalent to that prescribed in the case of resident graduate students (not less than one year), and shall have passed an examination upon such course of study with high credit, and presented a satisfactory thesis upon the special subject of such study.

(3) The degree of M.S. will be conferred upon Bachelors of Science of the College under the same conditions that are prescribed for the degree of M.A.

(4) The Faculty at its discretion may select one person from the candidates for the Master's degree in any year, to read and to defend his thesis in public at Commencement.

(5) Persons who have received the Bachelor's degree in any other College, whose requirements for that degree are equal to those of this College, may be recommended for the corresponding Master's degree on the same conditions that are prescribed for graduates of this College, except that the specified course of liberal, non-professional study, of not less than one year, must be pursued in residence at this College.

(6) Resident candidates for the degrees of M.A. or M.S. shall be charged the same tuition as undergraduates. They shall be charged also a fee of ten dollars for the degree. Non-resident candidates for the same degrees shall be charged a fee of ten dollars for registration and of twenty-five dollars for examination and verification of thesis and for the degree.

(7) The degree of Ph.D. is at present offered in the departments of Biology, Geology, and Sociology only. Whenever other departments, singly or in groups, have sufficient teaching force and equipment to offer courses leading to this degree, announcement will be made in the catalogue. Meanwhile, graduates of the College who wish to become candidates in departments not mentioned above, are advised to seek the degree at graduate schools which are prepared to confer it.

(8) A candidate for the degree of Ph.D. must have received a Bachelor's degree from this College or from a College whose degrees are accepted as equivalent to its own, and he must satisfy the committee on graduate instruction that he is properly prepared for the graduate work in the department in which he is an applicant for a degree. He must pursue graduate studies for at least three years after taking his Bachelor's degree. Two of these years must be in residence at this College. The other year may be spent in graduate study at an approved institution.

(9) Graduates of this College who have received the degree of M.A. or M.S. under the rules in force since 1894, and in courses which form a part of the work announced by the department as leading to the degree of Ph.D., may count this work as a year toward the degree.

(10) Candidates for the degree of Ph.D. are required to present themselves for examination in three related subjects, a major and two minor. The requirements in each minor subject shall not be less than

all the required and elective undergraduate courses in that subject, or their equivalent. The graduate work in the major subject will consist largely of original investigation of a definite problem, the results of which are to be embodied in a thesis that shall contain some original contribution to knowledge, together with an historical and critical summary of the pertinent literature.

(11) Candidates are charged the same tuition as undergraduates. They are also charged a fee of twenty-five dollars for the degree.

SPECIAL REGULATIONS

(1) Applicants for an advanced degree, whether resident or non-resident, are required to announce to the President on a blank which will be furnished by the Dean of the Faculty on application, as early as the fifteenth of September of each year, the particular branches of study to which they wish to give attention during the year, together with all needed statistics and facts. The supervision of their work will then be entrusted to the Committee on Graduate Instruction.

(2) The subject of the thesis must be announced to the President as early as the first of February of the college year in which the applicant expects to take the degree.

(3) The thesis must be completed and put into the hands of the chairman of the Committee on Graduate Instruction as early as the first of June.

(4) Every non-resident candidate must send a written report of the progress of his work to this committee through the head of the department at least twice a year, in December and in June.

HONORS

COMMENCEMENT APPOINTMENTS

The speakers at Commencement are appointed by the Faculty on the basis of excellence in general scholarship for the entire college course. The appointees are grouped into classes in accordance with their relative rank.

RUFUS CHOATE SCHOLARS

Students who attain a rank of 92 are designated "Rufus Choate Scholars." The designation is entirely a term of honor and carries with it no pecuniary allowance. The assignment is made at the close of each year, and the names of such scholars are to be announced by the Dean, and published in the annual catalogue.

HONORABLE MENTION AND HONORS

For excellence in special departments of study, three grades of honors are awarded by the Faculty, — Honorable Mention, Special Honors, and Final Honors.

HONORABLE MENTION

Honorable Mention is awarded for excellence in the prescribed work pursued in the several departments, or when there is little or no prescribed work in a department, in specified elective courses determined by the Faculty, as follows:

GREEK, for Courses 1, 2, 3, and 9; or for Courses 1, 2, 6, and 7 or 9.

LATIN, for Courses 1, 2, 3, 5, and 6; or for Courses 1, 2, 3, 4, and 6 or 7.

ENGLISH, for Courses 1a, 1b, 2a, 2b, 3a, 3b, 4a, and 4b; or for Courses 1a, 1b, 2a, 2b, 7, and 8.

FRENCH, for Courses 1, 2, 3, and 4; or for Courses 3, 4, 5, and 6.

GERMAN, for Courses 1, 2, 5, and 6; or for Courses 3, 4, 11, and 12.

MATHEMATICS, for Courses 1, 2, 3, 4, 5, 6, 7, 7', and 8; or for Courses 1a, 4a, 5a, 6a, 7a, and 8a.

GRAPHICS, for Courses 1, 1a, 2, 3, and 4.

PHYSICS, for Courses 1, 2, 3, and 4; or for Courses 1, 2, 3, and 5.

ASTRONOMY, for Courses 1, 2, and 3.

CHEMISTRY, for Courses 1, 2, 3, and 4 or 5.

BIOLOGY, for Courses 1, 2, 4, and 5.

GEOLOGY, for Courses 1, 3, and 4.

MINERALOGY, for Courses 1, 4, and Geology 1 or 2.

HISTORY, for Courses 1a and 1b.

ECONOMICS, for Courses 1, 2, 3, and 4.

POLITICAL SCIENCE, for Courses 2, 4, and 6.

POLITICAL SCIENCE, for Courses 2, 6, and Economics 1, 3, and History 4 or 5.

PHILOSOPHY, for Courses 3, 5, and 7.

Only those students who have attained 93 per cent of the maximum mark in the courses prescribed, and fulfil such other conditions as are fixed by the departments indicated above, are entitled to receive Honorable Mention, subject to the approval of the Faculty. The names of students receiving Honorable Mention are printed in the annual catalogue published next after the award. The conditions above referred to will be furnished on application to the heads of the departments.

SPECIAL HONORS

Special Honors will be awarded at the end of Senior year, for excellence in the elective work pursued in the departments, to those who have taken all the elective courses offered by the department, except those which may be required for Honorable Mention, and who have attained 93 per cent of the maximum mark in them, and fulfilled such other conditions as may be fixed by the departments.

FINAL HONORS.

Final Honors will be awarded at the end of Senior year, for proficiency in subjects of study, to those who fulfil the conditions mentioned hereafter.

Any student who attains an average rank of 90 per cent in the studies of Junior year, or who attains 93 per cent in any department, with an average of at least 85 per cent in all departments, in the studies

of Sophomore and Junior years, will be allowed to become a candidate for Final Honors in any department in which he has attained a rank of 90 per cent. Students who are thus entitled to become candidates for Final Honors, and who wish to do so, must give written notice to that effect to the Dean of the Faculty and to the officer in charge of the department in which Final Honors are sought, on or before the fifteenth of October of their Senior year, and must fulfil the following conditions:

(a) They must take all the elective courses offered by the department in which they seek honors, and must also pursue such additional courses of study and collateral reading or investigation as shall be prescribed. At the close of the year they must pass, with a rank of at least 93 per cent, a special examination covering their entire work in the department, including the courses of collateral reading or investigation prescribed for Final Honors, and designed to test the range and accuracy of their work.

(b) They must also, if required, present theses satisfactory to a committee appointed by the Faculty, embodying the results of their special study. The subjects of theses shall be announced not later than March 1, and the theses must be handed to the Dean of the Faculty not later than June 15, of Senior year.

(c) They must maintain their general standard of scholarship, and if their average rank falls below 85 in any Semester they will be required to discontinue their work for Final Honors.

(d) No student will be allowed to become a candidate for Final Honors in more than one subject in the same year, without a special vote of the Faculty.

SPECIAL CONDITIONS IN DEPARTMENTS

GREEK—Examination upon work not covered in the course, in two of the following departments: Epic Poetry, Drama, History, Oratory, and Philosophy. A thesis is required.

LATIN—Examination on the works of various Latin authors not covered in the course, equivalent in amount to one-third of the prescribed and elective work of the department. A thesis may be required.

ENGLISH—Examinations on Chaucer's *Canterbury Tales*; Browne's *Religio Medici*; Milton's *Poems* (aside from *Paradise Lost* and *Paradise Regained*); Browning's *Poems* (specified selections); Hawthorne's *American Note-Books*; Emerson's *Poems*; Carpenter's *American Prose*. A thesis will be required.

FRENCH — *Petite Histoire de la Littérature Française*; Montaigne: *Essais* (six to be selected by the instructor); Montesquieu: *Grandeur et Décadence des Romains*; Voltaire: *Siècle de Louis XIV*; Guizot: *Guillaume le Conquérant*.

GERMAN — Scherer's *History of German Literature*; most important works of Goethe not read in course; Heine: *Die Harzreise*; selections from Freytag's prose; selections from *The Niebelungen Lied*, studied with a special reference to the development of modern German from Middle High German.

MATHEMATICS — The Directional Calculus and its applications. A thesis may be required.

PHYSICS — Mastery of a prescribed work on Sound, on Heat, on Light, and on Electricity and Magnetism, in addition to the books used in the classroom, with a rigid examination on each; practical laboratory work on a chosen subject of investigation, the results to be embodied in a thesis.

CHEMISTRY — Special collateral reading and laboratory work, original in its nature, to be chosen after conference with the instructor. Ordinarily a thesis will be required, based upon the results of the special work.

ANIMAL BIOLOGY — Special laboratory work and collateral reading, with or without the preparation of a thesis.

GEOLOGY — Special field work.

Any student who has an average rank for his entire college course of 90 per cent, or who has received Honorable Mention and Special Honors in one department, or who has received Final Honors, shall receive a degree *cum laude*. Any student who has received an average rank for his entire college course of 92 per cent, or who has received Honorable Mention and Special Honors in two departments, or who has received them in one department, together with Final Honors, shall receive a degree *magna cum laude*. Any student who has an average rank for his entire college course of 94 per cent, or who has received Honorable Mention and Special Honors in two departments, together with Final Honors, shall receive a degree *summa cum laude*.

The names of recipients of Honors are printed on the Commencement programme and in the annual catalogue.

THE HENRY E. PARKER FELLOWSHIP

The value of the fellowship is \$500 a year, and may be held for two years. The holder of the fellowship shall be some graduate of the year of his appointment, recommended by the Faculty. If judged advisable by the Faculty, he may be allowed a year for special preparation before entering upon the duties of his fellowship or receiving the income attached to it. During the time in which he is upon the fellowship he shall pursue advanced studies, not professional, subject to the approval of the Faculty. He shall also regard himself as committed to an engagement as a teacher in the College for the year after his fellowship expires, in case the College requires his services, at the usual compensation for the grade of his appointment.

RESIDENT GRADUATE SCHOLARSHIPS

Four scholarships, yielding three hundred dollars each for one year, have been provided for graduates of the College who wish to continue their studies in residence. These scholarships are designed particularly for those who intend to teach, but are not limited to those who have this end in view.

SCHOLARSHIPS AND BENEFICIARY AID

1—ENTRANCE SCHOLARSHIPS:

Four scholarships for Freshman year, based upon entrance examinations, are available for each entering Class.

They are as follows:

The Samuel Leland Powers Scholarship		
established by Samuel Leland Powers, of Boston	. . .	\$100
The David Jewett Scholarship		
given by his sons, Rev. William R. Jewett and David B. Jewett	. . . . .	100
The New Hampshire State Scholarship		
offered to any applicant from New Hampshire, and applied to tuition and to room-rent in the College Buildings	. . .	125

The College Scholarship

open to all applicants, and applied to tuition and to room-rent in the College Buildings \$150

The competition for these scholarships is regulated by the following conditions:

(1) Examinations are to be taken at the College or at places specified in the catalogue (pages 79-80) for the June examination.

(2) No scholarship will be granted to an applicant who does not obtain a rank of at least 85 on a scale of 100, — that being the percentage which indicates Commencement rank at graduation.

(3) Scholarships will be assigned on the merits of the examination.

(4) These scholarships are open to those only who require pecuniary aid.

II — CLASS SCHOLARSHIPS:

Twelve scholarships, four to each class, corresponding in amounts to those named under Entrance Scholarships, are available to applicants from the Sophomore, Junior, and Senior Classes. Of these, six are of \$100 each, covering tuition, — three of \$125, covering tuition and room-rent in the College Buildings (open to students from New Hampshire only), — three of \$150, covering tuition and room-rent in the College Buildings.

These scholarships are awarded upon the basis of the work of the year preceding that for which they are assigned. In ordinary cases none will be given except to those who attain a grade of 90 on a scale of 100, and above that grade they will be assigned according to rank. Like the Entrance Scholarships, they are open to those only who require pecuniary aid.

III — BENEFICIARY AID, associated with merit in scholarship:

Beneficiary aid is given chiefly in the form of scholarships, of which there are about two hundred, specified below, each yielding an annual income of fifty dollars. This amount may be increased through faithfulness and proficiency in study to sums of seventy-five and eighty-five dollars.

Scholarships of this order are of three grades:

GRADE A — Scholarships of \$50 each, given as beneficiary aid, but requiring full standing in class, — with rank of at least 50 on a scale of 100.

GRADE B — Scholarships of \$75, including beneficiary aid, given to those who attain a rank of 75 (70 in Freshman year) and also to those who, without attaining this rank, show marked faithfulness in attendance and study.

GRADE C — Scholarships of \$85, including beneficiary aid, given to those who attain a rank of 85.

The amount of the scholarship in grades B and C, in excess of the \$50 as beneficiary aid, is determined by the student's attendance and work Semester by Semester. No allowance is made for this additional amount in the payment of tuition, unless the rank of the previous Semester has been determined. Students having deficiencies must pay on the basis of beneficiary aid only.

The following rules govern the bestowal of beneficiary aid, and, with the exception of the first, are applicable to all scholarships :

(1) Applications accompanied by suitable testimonials must be made in writing to the President in due season.

(2) No student who is not in full standing shall receive beneficiary aid or a scholarship.

(3) In addition to the restrictions which may be imposed by the donors of scholarships, the conditions of careful economy in personal expenses and of abstinence from intoxicating liquors are imposed by the College. The application for the renewal of beneficiary aid from year to year must be accompanied by a complete statement of income and expenditure during the year preceding.

(4) Beneficiary aid will be assigned at the beginning of each year, and any change may be made that the Faculty deems desirable.

The income applicable to beneficiary aid is derived as follows :

I — From lands and funds given by the State of New Hampshire, with an annual income equivalent to seventy scholarships. These scholarships are limited to residents of the State.

II — From funds amounting to \$14,000 raised by subscription in 1823, "for the education of pious young men in Dartmouth College studying for the gospel ministry." The income from these funds is applied in fourteen scholarships.

III — From funds amounting to \$7,000 given by Mrs. Clark of Portsmouth, New Hampshire, and by other persons. The income from these funds is devoted to students studying for the ministry, and is applied in seven scholarships.

IV — From funds amounting to \$6,100 given by the Conferences of Grafton, Hillsborough, Cheshire, Merrimack, Rockingham, and Strafford Counties in New Hampshire, also devoted to students for the ministry, and constituting six scholarships.

V — From funds amounting to \$11,000 given by Jeremiah Kingman, of Barrington, New Hampshire, to found the "Kingman Scholarships," eleven in number. "In applying the income annually of one thousand dollars, the preference shall be given to some student from the town of Strafford; and in applying the income of the other ten thousand dollars, preference shall be given to one student from each of the ten counties in the state of New Hampshire."

VI — From funds amounting to \$10,000 given by Mrs. Betsey Whitehouse, of Pembroke, New Hampshire, to establish the "John S. Jenness Foundation." By the provisions of the donor, "A worthy and needy applicant from each of the ten counties of the State of New Hampshire shall receive, by preference, the income of one of these scholarships." Another gift of \$1,000 by Mrs. Whitehouse is included in the following general list.

VII — From funds given to found scholarships as follows :

The Aiken Scholarship	
given by Jonas B. Aiken of Franklin, N. H.	\$1000
The William Lawrence Baker Scholarship	
given by Mrs. Caroline A. Lawrence of Winsted, Conn.	1000
The George W. Benson Scholarship	
given by Mrs. Maria T. Benson of Lawrence, Mass.	1000
The Bouton Scholarship	
given by the family of Nathaniel Bouton, D.D., of Concord, N. H.	1500
The Richard Boylston Scholarship	
given by the family of Richard Boylston of Amherst, N. H.	1000
The Joseph P. Brooks Scholarship	
given by Joseph P. Brooks of Chicago	1000
The Emily Clark Brown Scholarship	
given by Edward J. Brown, M.D., of Minneapolis, Minn.	1000
The Burleigh Scholarship	
given by George W. Burleigh of Great Falls, N. H.	1000
The Carr Scholarship	
given by William Carr of Newport, N. H.	1000
The George E. Chamberlain Scholarships	
given by Mrs. Addie D. McAlpine of New York City	5000
The Cilley Scholarship	
given by Jacob G. Cilley of Manchester, N. H.	1000

The Lizzie C. Converse Scholarship				
given by Miss Sarah E. Converse of Burlington, Vt.	.	.	.	\$1000
The Cushing Scholarship				
given by G. W. B. Cushing of New York City	.	.	.	1000
The Dodge Scholarship				
given by William E. Dodge, of New York City	.	.	.	1000
The Edgell Scholarship				
given by George S. Edgell of New York City	.	.	.	1000
The John M. Ellis Scholarship				
given by Mrs. Josephine M. Ellis of Milford, N. H.	.	.	.	1000
The Horace Fairbanks Scholarship				
given by Horace Fairbanks of St. Johnsbury, Vt.	.	.	.	1000
The Thaddeus Fairbanks Scholarship				
given by Thaddeus Fairbanks of St. Johnsbury, Vt.	.	.	.	1000
The Fairfield Scholarship				
given by Josiah H. Fairfield of Hudson, N. Y.	.	.	.	1000
The Fogg Scholarship				
given by William H. Fogg of New York City	.	.	.	1000
The Gookin Scholarship				
given by Warren D. Gookin of New York City	.	.	.	1000
The Gordon Scholarships				
given by Nathaniel Gordon of Exeter, N. H.	.	.	.	2000
The Greene Scholarship				
given by William H. Greene of Buffalo, N. Y.	.	.	.	1000
The Grimes Scholarship and				
The Mrs. James W. Grimes Scholarship				
given by James W. Grimes, LL.D., of Burlington, Ia.	.	.	.	2000
The Mary Harris Scholarship				
given by Mrs. Mary Harris of Manchester, N. H.	.	.	.	1000
The Tracy H. Harris Scholarship				
given by Tracy H. Harris of New York City	.	.	.	1000
The Mrs. Adaline Hartshorn Scholarship				
given by Mrs. Adaline Hartshorn of Manchester, N. H.				
(awarded preferably to sons of missionaries)	.	.	.	1000
The Haven Scholarships				
given by bequest of Charlotte M. Haven to establish six scholar-				
ships	.	.	.	9000
The Hitchcock Scholarship				
given by Hiram Hitchcock of Hanover, N. H.	.	.	.	1000
The Ephraim E. Howard Scholarships				
given by James T. Howard of St. Johnsbury, Vt.	.	.	.	5200
By the provisions of the donor not available at present				

SCHOLARSHIPS

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The Hunt Scholarship	
given by Seth B. Hunt of New York City	\$1000
The Hutchinson Scholarship	
given by John B. Hutchinson of New York City	1000
The Leonard Jewett Scholarship	
given by Rev. Leonard Jewett of Hollis, N. H.	700
The Kendrick Scholarship	
given by Professor Henry L. Kendrick of West Point, N. Y.	1000
The Kimball Scholarship	
given by Benjamin A. Kimball of Concord, N. H., annually, \$60	
The Kittredge Scholarship	
given by Moses Kittredge, of St. Johnsbury, Vt.	1000
The Knight Scholarship	
given by Miss C. Knight	1000
The Henry H. Ladd Scholarships	
given by Henry H. Ladd of Portsmouth, N. H.	5000
The Betsey R. Lang Scholarships	
given by Mrs. Betsey R. Lang of South Boston, Mass.	5000
The Mary Langdon Scholarship	
given by William T. Savage, D.D., of Godfrey, Ill.	1000
The Lawrence Scholarship	
given by Aaron Lawrence of Amherst, N. H.	1000
The Lue Lawrence Scholarship	
given by Miss Sarah Lucretia Lawrence of Amherst, N. H.	1000
The Mary H. Lord Scholarship	
given by Mrs. Mary H. Lord of Andover, Mass.	1000
The Sarah Reid McMurphy	
The Henry James McMurphy	
The Abby Frances McMurphy Scholarships	
given by bequest of Mrs. Sarah R. McMurphy of Derry, N. H.	5000
The William G. Means Scholarships	
given by William G. Means of Boston, Mass.	2000
The Morton Scholarship and	
The Daniel O. Morton Scholarship	
given by Levi P. Morton of New York City	2000
The Nesmith Scholarship	
given by George W. Nesmith of Franklin, N. H.	1000
The Daniel Nettleton Scholarship	
given by Fred H. Nettleton of St. Paul, Minn.	1000
The William W. Niles Scholarship	
given by William W. Niles of New York City	1000
The Albert Onion and	
The John P. Williams Scholarships	
given by Mrs. Abigail W. Onion of Chester, Vt.	2000

The Parker Scholarship		
Memorial of Edith Florence Parker		
given by Joel Parker, LL.D., of Cambridge, Mass.	.	\$1000
The Peaslee Scholarship		
given by Professor Edmund R. Peaslee, M.D., LL.D., of New York City	.	1000
The Richards Scholarship		
given by Dexter Richards of Newport, N. H.	.	1000
The Joel Richardson Scholarship		
given by James B. Richardson, LL.D., of Boston, Mass.	.	1000
The John Jones Sargent Scholarship		
given by Jonathan E. Sargent, LL.D., of Concord, N. H.	.	1000
The Roswell Shurtleff Scholarship		
given by Mrs. Anna P. Emerson of Hanover, N. H.	.	1500
The David A. Simmons Scholarship		
given by David A. Simmons of Roxbury, Mass.	.	1000
The Stanton Scholarship		
given by Samuel Stanton, of London, Eng.	.	1000
The Stephen N. Stockwell Scholarship		
given by Stephen N. Stockwell of Boston, Mass.	.	1000
The Stone Scholarship		
given by Mrs. Benjamin P. Stone of Concord, N. H.	.	1000
The Samuel Swan Scholarship and		
The Janet Swan Scholarship		
given by Miss Elizabeth S. Swan of Peterborough, N. H.	.	2000
The Tenney Scholarship		
given by William Tenney of Hanover, N. H.	.	1000
The William C. Todd Scholarship		
given by William C. Todd of Atkinson, N. H.	.	1000
The Trussell Scholarship		
given by J. Trussell of Enfield, N. H.	.	1000
The Twombly Scholarship		
given by Horatio N. Twombly of New York City	.	1000
The John W. Wallace Scholarship		
given by Mrs. Celia Whipple Wallace of Chicago	.	1000
The Wheeler Scholarships		
given by David E. Wheeler of New York City	.	2000
The Thomas Whipple Scholarship		
given by Mrs. Celia Whipple Wallace of Chicago	.	1000
The Mrs. Betsey Whitehouse Scholarship		
given by Mrs. Betsey Whitehouse of Pembroke, N. H.	.	1000
The Dr. Chase Wiggin Scholarship		
given by Dr. Chase Wiggin of Providence, R. I.	.	2000

By the provisions of the donor two-thirds of the income is awarded

Luke Wood Fund for Scholarships

Bequest of Martha W. Brown of Hartford, Conn. . . . \$4850

The Dutton Woods Scholarship

given by Miss Maria Woods of Concord, N. H. . . . 1000

The Woodward Scholarship

given by Dr. Ebenezer Woodward of Quincy, Mass. . . . 1000

Some additional aid is furnished in the way of compensation to those students who are appointed by the Dean as monitors and by the Librarian as assistant librarians.

PRIZES

I. RHETORICAL PRIZES. 1. *The Grimes Prizes*. Two prizes, of *twenty-five* and *fifteen* dollars respectively, given by JAMES W. GRIMES, LL.D., of Iowa, are offered to the Senior Class for excellence in English Composition.

2. *The Lockwood Prizes*. Two prizes of *twelve* and *eight* dollars respectively, given by LE GRAND LOCKWOOD, of New York, are offered to the Junior Class for excellence in English Composition.

3. *Pacific Coast Alumni Association Prize*. A prize of *fifteen* dollars, given by the Dartmouth Alumni Association of the Pacific Coast, is offered to the Sophomore Class for the best essay on a subject in American Literature.

II. ORATORICAL PRIZES. 1. *The Rollins Prizes*. The sum of *one hundred* dollars, annually contributed by the heirs of Edward H. ROLLINS, of Concord, New Hampshire, is awarded in three prizes of *forty*, *thirty-five*, and *twenty-five* dollars respectively, for excellence in Declamation, to be contested for by three students from each of the three lower classes in the College.

2. *The Smith and Class of 1866 Prizes*. Two prizes, of *thirty* and *twenty* dollars respectively, given by JUSTIN H. SMITH, of Boston, are offered to the Senior Class for excellence in Extemporaneous Oratory, to be contested for by four students. Two prizes, of *thirty* and *twenty* dollars respectively, annually contributed by WALDEMER OTIS, of New York City, in the name of the CLASS OF 1866, are offered to the Junior and Sophomore Classes for excellence in Origi-

nal Orations, to be contested for by two students from each of these classes.

III. LATIN PRIZES. Two prizes, of *twelve* and *eight* dollars respectively, established by the CLASS OF 1846, are offered to the members of the Junior Class who shall maintain the best positions and pass the best examinations in the studies of the Latin Department, including Latin Composition.

IV. GREEK PRIZES. Two prizes of *twenty-five* and *fifteen* dollars respectively, established by the joint gift of EDWARD SPALDING, LL.D., and JOSIAH G. DAVIS, D.D., and named the ATHERTON PRIZES, are offered to the members of the Junior Class who shall maintain the best positions and pass the best examinations in the prescribed and elective studies of the Greek Department.

V. MATHEMATICAL PRIZES. Two prizes, of *twenty-five* and *fifteen* dollars respectively, given by GENERAL SYLVANUS THAYER, LL.D., of Braintree, Massachusetts, are offered to the members of the Sophomore Class for excellence in Analytic Geometry and the Differential and Integral Calculus.

VI. MODERN LANGUAGE PRIZE. By the will of THOMAS J. W. PRAY, M.D., of Dover, New Hampshire, the sum of *one thousand* dollars has been bequeathed to the College, "the income of which shall be given to the best scholar, throughout the entire collegiate course, in Modern Languages."

VII. PRIZE FOR GENERAL IMPROVEMENT. A prize of *forty* dollars, given by JAMES W. GRIMES, LL.D., is annually awarded to "that member of the Senior or Graduating Class, who, in the judgment of the College Faculty, has made the most satisfactory progress during his College course, taking into consideration his preparation for the course when he entered."

VIII. FREE-HAND DRAWING. Two prizes, one of *fifteen* dollars and one of *ten* dollars, are offered by DAVID H. ANDREWS, B.S., of Newton, Massachusetts, to the members of the Freshman Class (Chandler Scientific Course) for excellence in Free-hand Drawing.

IX. MECHANICAL DRAWING. Two prizes, of *fifteen* and *ten* dollars respectively, are offered by CHARLES R. SPALDING, B.S., of Chicago, to the members of the Sophomore Class (Chandler Scientific Course), for the best sets of Mechanical Drawings, comprising Isometrical, Tinted, and Descriptive Geometry Drawings, and Surveying Plots.

X. BOTANY PRIZES. Two prizes are offered by PROFESSOR HENRY G. JESUP, one of *ten* dollars to that member of the Sophomore Class in Systematic Botany who shall present the best Herbarium; and one of *fifteen* dollars to the member of the Junior Class in Structural Botany who at the time of examination shall present an essay of not less than one thousand words, which shall give the most complete account of the Anatomy and Physiology of any plant, or class of plants, as the result of his own investigations.

A PRIZE of *one hundred* dollars, offered by HENRY M. BAKER, of Bow, New Hampshire, of the Class of 1863, for the best original short poem appropriate for a distinctively Dartmouth song, has been awarded to the poem, "Men of Dartmouth," by RICHARD HOVEY, of the Class of 1885. The same donor now offers a prize of *one hundred* dollars, open to all competitors, for the best music adapted to this song. The music must be suitable for chorus and out-of-door singing, as well as for use at college anniversaries, banquets, and similar gatherings. All manuscripts submitted in competition for the prize must be sent to Professor Charles F. Richardson, Hanover, New Hampshire, by May 1, 1899.

[For awards of prizes in 1898, see pages 57, 58.]

TERM BILLS

[*Extracts from the "Laws of the Trustees"*]

Chapter IX. 1. "Each student shall be charged for tuition, including all incidentals, except the use of the Library (\$6.00, a fixed charge) and Laboratories (according to use), one hundred dollars a year. Room-rent in the college dormitories will be determined by choice of rooms, heat, care, etc."

2. "The term bills of each year are to be paid in two equal instalments. The first payment is due at the beginning of the first Semester (students entering College pay first charge for tuition before matriculation); the second on March 10 succeeding. Any delay in payment beyond seven days from these dates, without excuse from the President, shall subject the student to loss of standing.

Any students failing to make payment within this time shall be entered upon the books of the treasurer as delinquents, and shall be so reported to the President, and notification of the delinquency shall be given to parents or guardians."

3. "No student shall be dismissed from College on request unless he shall have paid all his term bills, including the current term; nor shall any student be entitled to a degree until all his College bills are discharged."

Entering students who have been granted scholarship aid will be credited with \$25 on their tuition bill of the first Semester, leaving \$25, balance of tuition, and \$3 Library tax, to be paid before matriculation; if the scholarship of such student, to be determined at the end of the first Semester, entitles him to a larger credit, allowance will be made upon the term bill of the second Semester.

Students receiving scholarship aid to the amount of \$50 will pay \$25 tuition and \$3 Library tax each Semester.

Students receiving scholarship aid to the amount of \$75 will pay \$12.50 tuition and \$3 Library tax each Semester.

Students receiving scholarship aid to the amount of \$85 will pay \$17.50 tuition and \$3 Library tax each Semester.

All students not receiving scholarship aid will pay \$50 tuition and \$3 Library tax each Semester.

The laboratory fee in the department of Biology is \$3 for each course.

The laboratory fee in the department of Physics is \$3 for each course in Junior year and \$5 for each later course.

The laboratory fee in the department of Chemistry is as follows: Course 3, \$2; Course 4, \$3; Course 7, \$5; Course 8, \$4.

The laboratory fee in the department of Mineralogy is \$3 for each course.

Room-rent is payable in two instalments, one half at the beginning of the first Semester and one half on March 10 succeeding.

Electric lights, 16 candle-power, including lamps, are furnished at \$7 a year per lamp.

EXPENSES

Expenses may be estimated as follows :

Tuition	\$100.00	\$100.00
Library and Reading-room dues ¹	6.00	6.00
Text-Books	10.00	to 20.00
Laboratory Fees (if courses elected)	6.00	to 14.00
Room-Rent	10.00	to 150.00
Fuel and lights	15.00	to 40.00
Board from \$3.00 to \$5.00 a week	111.00	to 185.00
Washing	15.00	to 30.00
	<u>\$273.00</u>	<u>to \$545.00</u>

Room-rent, fuel, and lights are estimated on the supposition that two students occupy the same room.

Other incidental expenses, such as furniture, expenses in societies, class-taxes, traveling expenses, etc., vary according to circumstances, and with the character and habits of the individual, and are not included in the above estimate.

DORMITORIES

The dormitories of the College accommodate about three hundred and fifty students. There are forty single rooms, one hundred and thirty-three suites for two, and fifteen suites for three.

The dormitories are of three kinds, — those heated by steam, with janitor service ; those heated by steam, without janitor service ; and those in which the occupants care for their rooms, and furnish their own fires.

In the first class are : Reed Hall, with nineteen rooms in suites for two or three, accommodating forty-four students ; the Sanborn House, erected in 1894, with single rooms and with suites for two, accommodating fifty students ; the Crosby House, erected in 1896, with single rooms and suites for two or three, with separate bedrooms, accommodating forty students ; and Richardson Hall, erected in 1897, with single rooms, and suites for one or two, accommodating fifty-six students.

¹ See page 151.

In the second class is Hallgarten Hall with an annex, arranged in single rooms, and in suites for two, three, or four, accommodating thirty-six students; Thornton Hall, with single and double rooms, accommodating forty-five students; and Wentworth Hall, with double rooms, accommodating forty-five students.

To the third class belong Dartmouth Hall, and the Elm and Rood Houses, furnishing accommodations for sixty-five students.

Richardson Hall is provided with fireplaces in most of the suites, and in a few suites with bath-rooms; there are bath-rooms and water-closets on each floor; the Crosby House is provided in nearly all its suites with fireplaces, and is furnished with bath-rooms and water-closets on each floor; the Sanborn House is furnished with bath-rooms and water-closets on each floor; Hallgarten Hall with bath-room and water-closets on the first floor; and Reed Hall with bath-rooms and water-closets on the second floor. Dartmouth Hall is also furnished with water-closets in the basement at either end, which are easily accessible from Thornton and Wentworth Halls.

All rooms in the College buildings are unfurnished.

PRICE OF ROOMS IN THE COLLEGE BUILDINGS,

1899-1900

DARTMOUTH HALL, without heat and care.

Rooms for one occupant, No. 4, \$24; No. 6, \$28; No. 12, \$36.

Rooms for two occupants, Nos. 2, 5, 6, 8, 10, \$40; Nos. 3, 9, 12, \$44; Nos. 1, 11, \$50; No. 7, \$54.

Rooms for three occupants, No. 10, \$48; Nos. 2, 5, \$51; Nos. 3, 9, \$54; Nos. 1, 11, \$60; No. 7, \$66.

THORNTON HALL, with steam-heat, without care.

Rooms for one occupant, No. 3, \$42; No. 7a, \$43; No. 22, \$44; Nos. 4, 6, 12, \$45; No. 20, \$48; Nos. 5, 24, \$50; No. 11, \$52; No. 7b, \$56; No. 18, \$58; Nos. 10, 13, 15, 17, 19, 21, 23, 24, \$60; No. 9, \$65; No. 16, \$66.

Rooms for two occupants, Nos. 12, 22, \$54; No. 20, \$56; Nos. 7b, 11, 18, \$66; Nos. 10, 15, 19, 21, 23, \$68; Nos. 8, 13, 17, \$70; No. 16, \$76; No. 2, \$78; Nos. 1, 9, \$80.

Rooms for three occupants, No. 16, \$87; Nos. 22 and 24, \$104; Nos. 10 and 12, 18 and 20, \$114; Nos. 13 and 15, 17 and 19, 21 and 23, \$129; Nos. 9 and 11, \$132.

WENTWORTH HALL, with steam-heat, without care.

Rooms for one occupant, No. 22, \$44; No. 12, \$45; Nos. 4, 6, \$47; No. 20, \$48; No. 24, \$50; No. 8, \$54; Nos. 1, 2, 3, 5, 7, \$55; Nos. 10, 18, \$58; Nos. 9, 11, 13, 15, 17, 19, 21, 23, \$60; No. 16, \$66.

Rooms for two occupants, No. 22, \$54; Nos. 4, 6, 12, 20, \$56; No. 24, \$60; Nos. 2, 8, \$64; Nos. 1, 3, 5, 7, 10, 18, \$66; Nos. 19, 21, 23, \$68; Nos. 9, 11, 13, 15, 17, \$70; No. 16, \$76.

Rooms for three occupants, No. 16, \$87; Nos. 22 and 24, \$104; Nos. 2 and 4, 6 and 8, \$111; Nos. 10 and 12, 18 and 20, \$114; Nos. 5 and 7, \$121; Nos. 1 and 3, \$123; Nos. 9 and 11, 13 and 15, 17 and 19, 21 and 23, \$129.

HALLGARTEN HALL, with steam-heat, without care.

Rooms for one occupant, No. 16, \$30; No. 26, \$40; No. 6, \$44; No. 21, \$45; No. 9, \$50; Nos. 15, 17, 18, 20, \$55.

Rooms for two occupants, No. 21, \$70; Nos. 15, 17, 18, 20, \$80; No. 23, \$90; Nos. 5, 7, 11, 13, \$96; Nos. 8, 10, 12, 14, \$100; Nos. 2, 24, \$110; Nos. 6 and 8, \$124; Nos. 9 and 12, \$130; Nos. 24 and 26, \$150.

Rooms for three occupants, No. 2, \$135; Nos. 6 and 8, \$144; Nos. 9 and 12, \$150; Nos. 5 and 7, 11 and 13, 24 and 26, \$180; Nos. 8 and 10, 12 and 14, \$186.

REED HALL, with steam-heat and care.

Rooms for one occupant, No. 12, \$56; No. 18, \$96.

Rooms for two occupants, No. 4, \$100; No. 3, \$102; Nos. 5, 6, \$106; Nos. 1, 2, 7, 8, 9, 10, \$110; No. 16, \$114; No. 11, \$116; No. 14, \$120; Nos. 18, 19, \$122; No. 15, \$124; No. 17, \$130; No. 13, \$132.

Rooms for three occupants, Nos. 1, 2, 7, 8, 9, 10, \$135; No. 15, \$162; No. 17, \$165; No. 13, \$168.

SANBORN HOUSE, with steam-heat and care.

Rooms for one occupant, Nos. 25, 27, \$50; Nos. 10, 18, 26, 28, A, \$60; No. 29, \$70; Nos. 17, 19, 21, 23, \$90; Nos. 2, 9, 20, 22, 24, \$100; Nos. 3, 5, 7, 11, 13, 15, \$110; Nos. 1, 4, 6, 8, 12, 14, 16, \$120.

Rooms for two occupants, Nos. 10, 18, 29, \$90; Nos. 17, 19, 21, 23, \$110; Nos. 9, 20, 22, 24, \$120; Nos. 3, 5, 7, 11, 13, 15, \$130; Nos. 1, 4, 6, 8, 12, 14, 16, \$140.

CROSBY HOUSE, with steam-heat and care.

Rooms for one occupant, No. 23, \$60; No. 17, \$100; Nos. 16, 22, \$120; No. 7, \$130; No. 14, \$140.

Rooms for two occupants, No. 17, \$120; Nos. 16, 22, \$140; No. 7, \$150; Nos. 1, 14, 19, 21, \$160; Nos. 3, 9, \$170; Nos. 2, 11, 13, 15, 18, \$180; No. 4, \$190; Nos. 5, 10, 21, \$200; Nos. 6, 8, 13, 20, \$220; No. 12, \$240.

Rooms for three occupants, No. 20, \$240; No. 12, \$300.

RICHARDSON HALL, with steam-heat and care.

Rooms for one occupant, No. 22, \$50; No. 13, \$60; Nos. 1, 2, 28, \$100; Nos. 10, 27, \$110; No. 18, \$120; Nos. 9, 19, \$130.

Rooms for two occupants, Nos. 1, 2, 23, 24, \$130; Nos. 5, 6, 14, 15, \$150; No. 4, \$190; No. 3, \$210; Nos. 25, 26, \$220; No. 30, \$240; Nos. 7, 8, 16, 17, 29, \$250; No. 12, \$260; Nos. 11, 20, \$280; No. 21, \$300.

Rooms for three occupants, Nos. 18 and 20, \$400; Nos. 19 and 21, \$430.

A diagram giving the location of each room or suite of rooms, with dimensions, number of occupants allowed, and price, will be sent upon application to the Dean.

THE LIBRARY

In its several collections, the College Library represents the accumulations of a century and a quarter. It originated in valuable gifts of books to the first President from English and Scotch societies for promoting religious knowledge; also, from the Rev. John Erskine, Mr. William Dickinson, and others. Similar benefactions have followed, among the more important of which are the Johnson, Phillips, Shattuck, Shurtleff, Parker, Smith, Appleton, Bond, and Grimes donations.

For many years separate libraries were sustained and managed by the public literary societies of the students, known as the Social Friends and the United Fraternity. The Philotechnic Society, organized at a later date among the students of the Chandler School, also made important additions to these collections.

In 1874 the different libraries were consolidated, and put under the

control of the College, but the principle of voluntary contribution, by which the collections were so largely gathered, is still maintained, and the annual sum of six dollars is collected from each student, for convenience, with the tuition. According to the agreement through which this annual assessment is made, the selection of books to the value of several hundred dollars yearly is entrusted to a committee of the Seniors.

The main collection, numbering about 80,000 volumes and 20,000 pamphlets, with a large accumulation of newspapers and manuscripts, is in Wilson Hall, a commodious and convenient fire-proof building constructed after the most approved plans of library architecture. The building is heated by steam, elaborately ventilated, and including the stack-room, lighted by electricity. The books are arranged according to the "expansive system," the classes corresponding as nearly as possible to the departments of instruction in the College. They are catalogued after the method of the "classed-card" catalogue.

Wilson Hall also contains three attractive and well-stocked reading-rooms, for newspapers, magazines, and reference books, and a large art gallery. The latter has just been fitted with shelving of the most recent pattern, supplied with convenient tables, and made available as a departmental reference room. The Library possesses over one hundred portraits in oil, a good collection of photographs for the illustration of art and archæology, coins, curios, etc.

There are department libraries in the Observatory, the Thayer School building, the Y. M. C. A. Rooms, as well as in the Physical, Chemical, Geological, Botanical, and Zoölogical Laboratories, and in the rooms occupied by the departments of Greek, History, Political, and Social, Science. Provision is to be made for other departments.

The rooms in Wilson Hall formerly used for offices of college administration are now to be used for collections on the subject of education, for the special benefit of the Faculty.

Books may be drawn for two weeks, excepting those volumes added during the college year, which may be retained but one week. Freshmen may retain three books at a time; Sophomores, four; Juniors, five; Seniors, six; Resident Graduate Students, ten; Alumni, four. Persons not connected with the College may use the Library upon the payment of four dollars yearly.

The reading and reference rooms are open on week-days from 8 A.M. to 10 P.M.; on Sunday the reading-rooms are open from 1.30 to 5.30 P.M.

The Library is open for drawing books from 9 A.M. to 12.30 P.M. and from 1.30 to 5 P.M.

Special attention is given to bibliography by courses of instruction, supervision of courses of reading, and personal assistance.

SCIENTIFIC EQUIPMENT

BUTTERFIELD MUSEUM

By the will of the late Ralph Butterfield, M.D., of Kansas City, of the Class of 1839, the College was made the residuary legatee of his estate, in a sum estimated at one hundred and sixty thousand dollars, "for the purpose of founding and forever maintaining a chair and professorship for the purpose of lectures, recitations, and general instruction in paleontology, archæology, ethnology, and other kindred subjects; and for the erection of a building to cost not less than thirty thousand dollars, for the purpose of keeping, preserving, and exhibiting specimens illustrating the aforesaid branches. It is to be optional with the Trustees either to establish a professorship or a series of lectures at stated periods, on the subjects mentioned."

In accordance with the expressed wish of the donor, the Butterfield Museum, a granite and Roman brick structure, one hundred and forty-five by fifty-five feet in dimension, of three stories and a basement, has been erected, and is now occupied by the various departments indicated in the above bequest. Special facilities are offered for instruction in Geology and Mineralogy, in Zoölogy and Botany, and in Archæology and Sociology.

The collections in Geology and Biology are arranged in the Butterfield Museum. They consist of the Frederick Hall collection of minerals and rocks, the Henry Fairbanks collection of birds and insects, restorations of large extinct animals, an extensive herbarium, collections illustrative of archæology, conchology, economic geology, and numerous other specimens, besides topographical models, and a special collection of the rocks of New Hampshire and Vermont, gathered under the auspices of the Geological Survey of New Hampshire. During the year a collection of great value, comprising fifteen hundred specimens of gold, silver, copper, lead, and zinc ores

from a section of Montana, forming a complete history of the mineral development of the region, has been presented to the Museum by Clinton H. More, Class of 1874, of Butte, Montana.

The main Biological Laboratory is a large room eighty-four by thirty feet, on the north side of the first floor. It is used for the elementary biology courses and for the courses in histology. A similar room in the basement is used for the work in mammalian anatomy and in the comparative anatomy of vertebrates. Adjoining this laboratory is a thoroughly equipped macerating-room. At the west end of the first floor is the laboratory for the embryology course and for the advanced workers. At the east end is a lecture-room, and also a Botanical Laboratory.

In addition to the above-named rooms are five private rooms for instructors, a chemical room, two storerooms, and in the basement a room for live animals. All the laboratories are well equipped with the apparatus necessary for practical biological work.

PHYSICAL LABORATORY

The Wilder Laboratory, the gift of the late Charles T. Wilder of Wellesley, Mass., will be ready for the occupancy of the department of Physics at the opening of the next academic year. The building is one hundred and seven feet long by fifty-two in depth, with a lecture-room projection in the rear.

The laboratories and recitation-rooms occupy three floors and a basement. The basement is to be devoted to workshop, dynamo-room, magnetic and electrical laboratories, storage battery room, and an equable temperature room. The first floor contains two large recitation-rooms, the private offices of the instructors, a lecture-room in the extension having a seating capacity for two hundred and forty persons, with a room for apparatus adjoining. The main laboratory occupies a section of the second and third floors, and the remainder of these floors is divided into laboratories for advanced work in acoustics, optics, and electricity; photographic and photometric laboratories and a concave-grating room are included. The entire building is heated by steam (direct and indirect radiation), provided with electric lights, wired on the conduit system for power circuits, supplied with gas, and piped for air blasts and water supply. The building is located near the observatory, allowing the departments of Physics and Astronomy to work in conjunction.

The Shattuck Astronomical and Meteorological Observatory is used for the purposes of instruction. It is provided with the instruments necessary to a complete observatory, including a telescope by Clark, having an aperture of 9.4 inches, and a focal length of 12 feet, with a spectroscope of the highest power and best construction, a four-inch meridian circle, etc.

CHEMICAL LABORATORY

The Chemical Laboratories occupy the whole of the first and about half the second floor of Culver Hall. It is planned for the current year to equip the large northeast room on the second floor with about forty new tables for quantitative work, and to transfer the balances and library to adjoining rooms. In all courses except the introductory course chemistry is taught by laboratory work, enforced by informal lectures, demonstrations, and short recitations.

CHANDLER HALL

Through the bequest of the late Frank Willis Daniels, of the Class of 1868, Chandler Hall, recently known as Moor Hall, has been purchased, reconstructed, and enlarged, and fitted for the special uses of the departments of Mathematics and Graphics. The first floor furnishes a large lecture-room, accommodating over two hundred persons, and rooms for the elementary courses in engineering; the second floor provides four well-arranged rooms for recitation work in mathematics, with private offices for the instructors; the third floor furnishes two large rooms for free-hand and mechanical drawing, with lighting from above.

The basement is devoted to testing and experimental work in the department of Engineering.

RELIGIOUS SERVICES

Prayers are conducted by the President each week-day morning in Rollins Chapel, and a vesper service is held on Sunday. All undergraduate students are required to be present.

The services of public worship, conducted by some member of the Board of Preachers, are held on Sunday mornings in the College Church. The preacher of the day is also at Bartlett Hall at four o'clock on Sunday afternoons to meet personally any students who may desire a conference with him.

Any student desiring to attend some other church in place of the College Church may indicate his choice at the time of registration. If a change is desired, after the choice has been made, permission must be gained from the Dean.

The Trustees have erected, for the use of the College Young Men's Christian Association, a large and carefully planned building, known as Bartlett Hall, providing a large audience hall and a reading-room, with rooms and ample facilities for Bible-classes, prayer-meetings, receptions, and social intercourse.

PHYSICAL CULTURE

The Instructor in Physical Culture will study the physical needs of each student, and recommend the special form of exercise most desirable for a symmetrical bodily development. Among the agencies contributing to this result are the regular training in the Gymnasium and the organized athletics of the College.

GYMNASIUM. This building, effected by the munificence of the late GEORGE H. BISSELL, of New York, is supplied with necessary apparatus. It has been refitted on the first floor with the latest improvements in shower and tub baths, closets, and lockers. It is open daily for the use of the students, and during the winter season a regular exercise is required of all members of the Freshman class, and voluntary divisions are formed among members of the other classes. The aim is to reach the large body of students who do not enter into athletic contests, rather than to train athletes.

ALUMNI ATHLETIC FIELD. Through the generous contributions of many of the Alumni, an admirable athletic field, with all the modern improvements, has recently been laid out near the College buildings. It is provided with all the necessary facilities for baseball, foot-ball, track athletics, and tennis; including a grand-stand seating six hundred spectators and containing dressing-rooms and shower-baths for the use of the students.

The general supervision of athletics in the College is committed to an advisory board, consisting of three non-resident Alumni, three members of the Faculty, and three undergraduates. The chairman of the board is DR. EDWARD COWLES, McLean Hospital, Waverly, Mass.

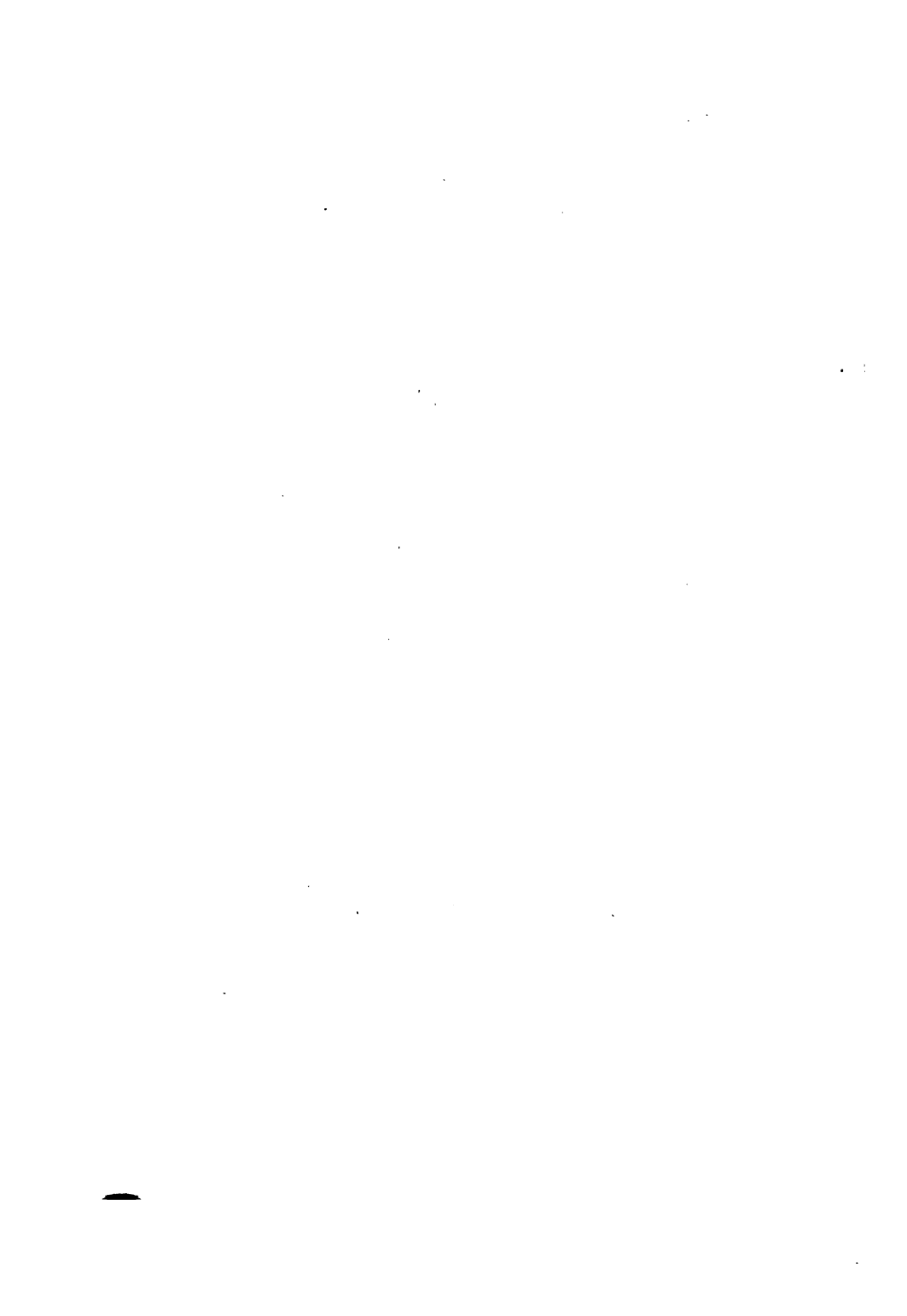
SANITARY CONDITIONS

The precinct of Hanover is healthfully situated upon a plain two hundred feet above the valley of the Connecticut. A system of waterworks, recently established at an expense of \$65,000, furnishes, in connection with the aqueduct before in use, an ample supply of water for all purposes. The precinct is also supplied with a thorough system of sewers. In case of illness, the Mary Hitchcock Memorial Hospital, constructed upon the most approved plans, and widely known, since its opening in 1893, as one of the best cottage hospitals in the country, furnishes the students such care and comfort as is seldom found outside of the larger cities.

RAILROAD CONNECTIONS

The railroad station is known as Norwich and Hanover, on the Passumpsic Division of the Boston and Maine Railroad. White River Junction, four miles south of Hanover, is the centre of four lines of railroads: the Concord Division (Boston and Maine system), making connection with Concord, Manchester, Nashua, Lowell, and Boston (four hours and forty minutes to Boston); the Central Vermont Railroad and the Connecticut River Division (B. and M. R. R.), making connection with Springfield, Hartford, New Haven, and New York (eight hours to New York); and also connecting at Greenfield (Fitchburg R. R.) and Springfield (Boston and Albany R. R.) for the West; the Central Vermont Railroad, making connection with Montpelier, Burlington, and the West (thirty hours to Chicago); the Passumpsic Division (B. and M. R. R.) making connection with Wells River, St. Johnsbury, Montreal, and Quebec (eight hours to Montreal).

MEDICAL SCHOOL



MEDICAL SCHOOL

FACULTY

- WILLIAM JEWETT TUCKER, D.D., LL.D., PRESIDENT.
- WILLIAM T. SMITH, M.D., LL.D., DEAN *and Professor of*
Physiology. Hanover.
- OLIVER P. HUBBARD, M.D., LL.D., *Professor Emeritus of*
Chemistry and Pharmacy. 117 55th Street, New York City.
- HENRY M. FIELD, M.D., *Professor Emeritus of Therapeutics.*
Pasadena, Cal.
- PHINEAS S. CONNER, M.D., LL.D., *Professor of Surgery.*
215 W. 9th Street, Cincinnati.
- PAUL F. MUNDÉ, M.D., LL.D., *Professor of Gynecology.*
20 W. 45th Street, New York City.
- WILLIAM H. PARISH, M.D., *Professor of Obstetrics.*
1435 Spruce Street, Philadelphia.
- EDWIN J. BARTLETT, M.D., *Professor of Chemistry.* Hanover.
- TILGHMAN M. BALLIET, M.D., *Professor of Therapeutics.*
3709 Powelton Ave., Philadelphia.
- GILMAN D. FROST, M.D., SECRETARY *and Professor of*
Anatomy. Hanover.
- JOHN M. GILE, M.D., *Professor of the Science and Practice of*
Medicine. Hanover.
-
- JOHN ORDRONAU, M.D., LL.D., *Professor of Medical*
Jurisprudence. Roslyn, N. Y.
- GRANVILLE P. CONN, M.D., *Professor of Hygiene.*
Concord, N. H.
- EDWARD COWLES, M.D., LL.D., *Professor of Mental Diseases.*
Waverly, Mass.

COURSE OF STUDY

Professor Edwin J. Bartlett will give the opening lecture of the One Hundred and Third Annual Course on Thursday, the 13th day of July, 1899, at 4 P.M.

Full courses of didactic lectures in all departments of Medical Science will be given during the session of seven months' duration. For the convenience of non-resident professors, eight or nine lectures are given in each branch weekly until their part of the work in their several branches is finished. The work in each branch is then continued by the resident professors, by lectures, by recitations, by work in the laboratories, and by clinics and ward classes at the Hospital, until the end of the session, when a written examination in each branch is given.

The course covers four years, and students are required to complete the work of each year in regular order, passing an examination at the close of each year in the studies of that year.

FIRST YEAR

Chemistry, Physics, Biology I, Comparative Anatomy I, II, Human Anatomy.

SECOND YEAR

Systematic Anatomy, Physiology, Medical Chemistry, Bacteriology, Histology.

THIRD YEAR

Regional Anatomy, Physiology, Pathology, Materia Medica, Obstetrics, Surgery.

FOURTH YEAR.

Therapeutics, Surgery, Practice, Obstetrics, Gynecology, Mental Diseases, Medical Jurisprudence, Hygiene, Ophthalmology, Laryngology, Otology.

SCHEDULE, 1899-1900

FIRST YEAR

Hour.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
9 A.M.	Dissection.	Human Anatomy.	Dissection.	Human Anatomy.	Dissection.	Human Anatomy.
10 A.M.	Chemistry.	Physics.	Chemistry.	Physics.	Chemistry.	Physics.
2 P.M.	Biology, or Comparative Anatomy.	Biology, or Comparative Anatomy.		Biology, or Comparative Anatomy.	Biology, or Comparative Anatomy.	
3 P.M.	Biology, or Comparative Anatomy.	Biology, or Comparative Anatomy.		Biology, or Comparative Anatomy.	Biology, or Comparative Anatomy.	

SECOND YEAR

Hour.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
8 A.M.	Physiology.	Histology B, or Bacteriology B, Dissection A.	Physiology.	Histology B, or Bacteriology B, Dissection A.	Physiology.	Dissection A, B.
9 A.M.	1 Histology A, or Bacteriology A. Dissection B.	Histology B, or Bacteriology B, Dissection A.	Histology A, or Bacteriology A, Dissection B.	Histology B, or Bacteriology B, Dissection A.	Dissection A, B.	Dissection A, B.
10 A.M.	Histology A, or Bacteriology A, Dissection B.	Anatomy.	Histology A, or Bacteriology A, Dissection B.	Anatomy.	Dissection A, B.	Anatomy.
11 A.M.	Dissection B.	Dissection A.	Dissection B.	Dissection A.	Dissection A, B.	Dissection A, B.
2 P.M.	Chemistry.	Chemistry.	Dissection A, B.	Chemistry.	Chemistry.	
3 P.M.	Chemistry.	Chemistry.	Dissection A, B.	Chemistry.	Chemistry.	

1 The course in Histology covers about two-thirds of the year. A course in Bacteriology at the same hour covers the rest of the year.

THIRD YEAR

Hour.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
8 A.M.		Physiology.		Physiology.		Physiology.
9 A.M.	Therapeutics.	Surgery.	Therapeutics.	Surgery.	Gynecology.	Surgery.
10 A.M.	Anatomy.	Dissection A, B.	Anatomy.	Pathology C. Dissection A, B.	Anatomy.	Pathology C. Dissection A, B.
11 A.M.	Obstetrics.	Dissection A, B.	Obstetrics.	Pathology C. Dissection A, B.		Pathology C. Dissection A, B.
2 P.M.	Pathology A. Dissection B, D.	Pathology B. Dissection A, D.	Dissection A, B, D.	Pathology A. Dissection B, D.	Pathology B. Dissection A, D.	
3 P.M.	Pathology A. Dissection B, D.	Pathology B. Dissection A, D.	Dissection A, B, D.	Pathology A. Dissection B, D.	Pathology B. Dissection A, D.	

FOURTH YEAR

Hour.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
8 A.M.	Practice.	Practice.	Practice.	Practice.	Practice.	Practice.
9 A.M.	Therapeutics.	Surgery.	Therapeutics.	Surgery.	Gynecology.	Surgery.
10 A.M.		Clinic.		Clinic.		Clinic.
11 A.M.	Obstetrics.	Clinic.	Obstetrics.	Clinic.		Clinic.

Fourth year men can have Bacteriology Wednesday P.M. during January and February.

Clinics at the Hospital, afternoons at 2 o'clock, and mornings, Tuesday, Thursday, and Saturday, at 10 and 11 o'clock.

HOSPITAL

The MARY HITCHCOCK MEMORIAL HOSPITAL has now been in use for nearly six years, and affords increased facilities for clinical instruction. It is a cottage hospital of thirty-six beds, and is constructed after the most approved modern style for such buildings.

A large and well lighted amphitheatre is provided for witnessing operations, which are gratuitously performed by members of the Faculty before the class, during the entire session.

An appointment of an advanced medical student as House Officer for the Hospital is made once in six months. He serves for six months as externe and then for an equal period as resident interne. His term of service begins on March 1st or September 1st.

Besides the use of the special collections and apparatus of the Medical School, the students derive incidental advantages from the other departments of the College. Medical students have access to the College library, including a medical library, on the same terms with other students.

REQUIREMENTS FOR ADMISSION

Applicants for admission to this School must have graduated from a registered College, or satisfactorily completed a full course in a registered Academy or High School; or have had a preliminary education considered and accepted as fully equivalent, and upon bringing evidence of such preparation and graduation will be received on certificate; those who wish to enter by examination should prepare themselves in the following subjects: English, History (two of the four parts, *a*, *b*, *c*, or *d*), Mathematics, Latin, and one of the Sciences, Chemistry, Physics, Zoölogy, or Botany, according to specifications given below.

SUBJECTS WITH SPECIFICATIONS

ENGLISH —

Two sets of books are prescribed for preparation in English, one for reading, the other for more careful study. No candidate will be accepted in English whose work is notably deficient in point of spelling, punctuation, idiom, or division into paragraphs. The requirement consists of two parts.

I. Reading—A certain number of books will be set for reading. The candidate will be required to present evidence of a general knowledge of the subject-matter, and be able to answer simple questions on the lives of the authors; he must also show the ability to write a paragraph or two on each of several topics, to be chosen by the candidate from a considerable number—perhaps ten or fifteen—set before him. The treatment of these topics is designed to test the candidate's power of clear and accurate expression, and will call for only a general knowledge of the substance of the books. In place of a part or the whole of this test, the candidate may be allowed to present an exercise book, properly certified by his instructor, containing compositions or other written work done in connection with the reading of the books.

The books set for this part of the examination will be :

In 1899, Pope's *Iliad*, Books i, vi, xxii, and xxiv; Dryden's *Palamon and Arcite*; The Sir Roger de Coverley Papers in *The Spectator*; Goldsmith's *Vicar of Wakefield*; Coleridge's *Ancient Mariner*; De Quincey's *Flight of a Tartar Tribe*; Cooper's *Last of the Mohicans*.

II. Study and Practice—This part of the requirement presupposes the thorough study of each of the works named below. The test will be upon subject-matter, form, and structure.

The books set for this part will be :

In 1899, Shakespeare's *Macbeth*; Milton's *Paradise Lost*, Books i and ii; Burke's *Speech on Conciliation with America*; Carlyle's *Essay on Burns*.

HISTORY (including Historical Geography) —

- (a) The History of Greece to the death of Alexander, with due reference to Greek life, literature, and art.
- (b) The History of Rome to the accession of Commodus, with due reference to literature and government.
- (c) English History, with due reference to social and political development.
- (d) American History, with the elements of Civil Government.

A candidate may elect any two of the four divisions in History (a, b, c, or d).

(a) *Greek History* —

Oman's or Myers' History of Greece.

(b) *Roman History* —

Allen's Short History of the Roman People, and 300 pages additional reading.

(c) *American History* —

either (1) Channing's Students' History of the United States or Johnston's History of the United States for Schools, each with 200 pages additional reading;

or (2) Higginson's Young Folks' History of the United States, through Ch. xvi, and *either* Channing's United States 1765-1865, *or* Johnston, from beginning of Period V;

or (3) Higginson; Lodge's English Colonies, Ch. ii and xxii; Morse's John Quincy Adams, Ch. ii and iii; Josiah Quincy's Figures of the Past.

(d) *English History* —

either Higginson and Channing's English History for Americans, *or* Montgomery's Leading Facts of English History, *or* Gardiner's English History for Schools, each with at least 300 pages additional reading, which may be selected from the following list: Creighton's Age of Elizabeth, Guest's Lectures on English History, Gardiner's Puritan Revolution, Freeman's Short History of the Norman Conquest, Green's Short History of the English People, Ch. i and Ch. vi, Sections iii-vii, Mrs. J. R. Green's Henry II, Macaulay's History of England, Ch. iii.

MATHEMATICS —

Algebra — The fundamental operations, simple equations with applications to problems involving two or more unknown quantities, the principles of factoring, involution and evolution applied to expressions containing fractional and negative exponents, radicals, including imaginaries and radical equations, quadratic equations, with applications to problems involving two unknown quantities.

Plane Geometry — With the use of the metric system in the construction and solution of numerical problems based on the principal theorems.

LATIN —

The ability to translate at sight easy Latin prose.

The Latin book edited by Crothers and Bice for medical students, or something equivalent, is recommended for preparation for this examination.

CHEMISTRY—

Acquaintance by laboratory work with elementary processes and with the properties of substances common in chemistry; familiarity with the chemical notation in its experimental and arithmetical meaning, including the ability to solve simple problems based on the relations expressed by formulas and equations; understanding and ability to use correctly the ordinary terms of Descriptive Chemistry. Bartlett's Laboratory Exercises, Parts i-v (exclusive of Class i, Part ii), or equivalent. A certified note-book of laboratory work must be presented. The student should have had in addition recitations based upon any good elementary descriptive text-book through the non-metallic and metallic elements.

To meet the above requirement, at least 110 hours of elementary chemistry are necessary, one-half laboratory work, illustrating the preparation and the properties of the substances ordinarily treated in elementary chemistry. Qualitative Analysis will not be accepted as an equivalent for the laboratory work prescribed.

PHYSICS—

I. Gage's Elements of Physics, or Avery's Elements of Natural Philosophy, or an equivalent.

II. A course of experiments, not less than forty in number, in Dynamics of Solids, Liquids, and Gases. The student must present his original note-book, with the record of his experiments certified by his instructor.

To meet the above requirement at least three exercises a week throughout the school year are necessary.

ZOOLOGY—

The equivalent of fifty one-hour exercises, consisting mainly of laboratory work in the study of the structure and life-histories of representative animals.

The candidate will be required to present a certified note-book, containing complete records of the conditions under which his observations were made, as well as the observations themselves; also sketches of all the animals, or their organs, that have been studied.

No work necessitating the use of a compound microscope is required.

Needham's Elementary Lessons in Zoölogy.

BOTANY—

The equivalent of fifty one-hour exercises in systematic Botany of flowering plants. The candidate will be required to present an herbarium, certified to be the product of his own work, of fifty species, carefully dried, mounted, and labeled.

Gray's Lessons in Botany (revised edition), first 125 pages, or Bergen's Elements of Botany, first 218 pages, with Gray's Manual of Botany (sixth edition) for system of classification.

A certified note-book must be presented with the herbarium, containing descriptions of twenty-five species of plants. For a good form to follow in the description, see "How to Describe a Flowering Plant," by F. L. Sargent, a small pamphlet that may be obtained from the Cambridge (Mass.) Botanical Supply Company.

The Examinations for admission to the First, or entering Class will be held in the English Room, Culver Hall, as follows:—

On Monday, September 11, at 3 P.M., in English.

On Tuesday, September 12, at 9 A.M., in History.

On Tuesday, September 12, at 3 P.M., in Mathematics.

On Wednesday, September 13, at 9 A.M., in the Sciences.

On Wednesday, September 13, at 3 P.M., in Latin.

ADMISSION TO THE SECOND CLASS

Students may be admitted without examination to the Second Class, who present satisfactory evidence of having passed the examinations of the first year in an accredited Medical School.

ADMISSION TO THE THIRD CLASS

Candidates for admission to the Third Class must pass on July 10, 11, and 12, 1899, the examinations in Human Anatomy, Physiology, Inorganic and Medical Chemistry, Histology, and Bacteriology already taken by that class.

Such candidates should be in town July 8.

ADMISSION TO THE FOURTH CLASS

Candidates for admission to the Fourth Class must pass on July 10, 11, and 12, 1899, the examinations in Human Anatomy, Physiology, Inorganic and Medical Chemistry, Histology, Bacteriology, Materia Medica, and Pathology already taken by that class.

Such candidates should be in town July 8.

Students in the Academic department of Dartmouth College, who, at the beginning of their Senior year, matriculate in the Medical department, are allowed to take examinations during Senior year in the work of the first year of the Medical department, provided they have taken during their academic course the subjects required in the first year of the medical course.

They will thus be able to earn the two degrees in seven years.

Students desiring to pass from the Academic to the Medical department of the College must bring the certificate of the President of the College, with his approval of such transfer.

EXAMINATIONS AND GRADUATION

During the first year of the study of medicine in this school examinations *will be required* in Physics, General Biology, Comparative Anatomy, Chemistry, and Human Anatomy.

At the end of two full years of the study of medicine and two courses of lectures, an examination *will be required* in Systematic Anatomy, Physiology, Medical Chemistry, Histology, and Bacteriology. At the end of three full years of the study of medicine and three courses of lectures, an examination *will be required* in Systematic and Regional Anatomy, Physiology, Materia Medica, and Pathology. The examinations thus taken, if satisfactory, shall stand as final.

The fee for the second examination is five dollars; for the third examination, ten dollars. These sums will be deducted from the examination fee at the final examination.

Certificates of examinations passed at other Colleges are not accepted in place of our own examinations for a degree, except as stated under Requirements for Admission.

Every candidate for the degree of Doctor of Medicine must (1) be more than twenty-one years of age; (2) be of good moral character; (3) have graduated from a registered College or satisfactorily completed a full course in a registered academy or high school; or have had a preliminary education considered and accepted as fully equivalent; (4) have studied medicine (unless matriculated before January 1, 1898), not less than four full school years of at least nine months each, including four satisfactory courses of at least six months each, in four

different calendar years, in a medical college registered as maintaining at the time, a satisfactory standard ; (5) present evidence that he has dissected all parts of the cadaver ; (6) pass a satisfactory written examination in Anatomy, Physiology, Chemistry, Histology, Bacteriology, Pathology, Therapeutics, Surgery, Obstetrics, Materia Medica, Gynecology, and Practice.

Final (oral) examinations before Delegates from the New Hampshire and Vermont Medical Societies will be held on the last Monday of February, 1900.

EXPENSES

All fees must be paid in full at the opening of the session.

LECTURES — Matriculation (paid annually)	. . .	\$5.00
For the first Course	. . .	100.00
For the other three Courses, each	. .	110.00
Examination Fee (not returnable)	. . .	25.00
Chemicals and ordinary breakage, First year	. . .	5.00
“ “ “ “ Second year	. . .	3.00
Bacteriological, Histological, and Pathological Material	. . .	3.00
Anatomical material	. . . . .	at cost

SCHOLARSHIPS

By the gift of one thousand dollars, Mrs. Mary H. Chamberlain of Princeton, New Jersey, has established, in memory of her husband, the William M. Chamberlain scholarship in Dartmouth Medical School. The income of the above-named sum is annually to be loaned to such worthy and indigent medical students as may need its aid toward payment of lecture fees. The loan is to be for four years, without interest. A few other scholarships are available on like terms.

TEXT-BOOKS

ANATOMY — Gray, Quain, Treves, Morris.

HISTOLOGY — Piersol, Stöhr, Schäfer.

BACTERIOLOGY — Sternberg.

PHYSIOLOGY — First Year, Martin's Human Body; Second Year, Kirkes (Blakiston's Edition). For reference, Foster, Stewart's Manual, American Text-book of Physiology.

CHEMISTRY — Bartlett's Laboratory Exercises, Bartley's Medical, Tyson's or Purdy's Urinary Analysis.

THERAPEUTICS — Balliet's Notes, Field's Cathartics and Emetics, Bruce, Wood, Bartholow.

PRACTICE OF MEDICINE — Osler, Tyson, Wood and Fitz, Medical Diagnosis, Loomis.

PATHOLOGY AND PATHOLOGICAL ANATOMY — Green, Ziegler, Coplin.

SURGERY — American Text-book of Surgery, Moullin, Park, Walsham, Warren, Gerster.

OBSTETRICS — Hirst, Lusk, Parvin, Playfair.

DISEASES OF CHILDREN — Holt, Vogel, Rotch.

DISEASES OF WOMEN — Thomas and Mundé, Dudley.

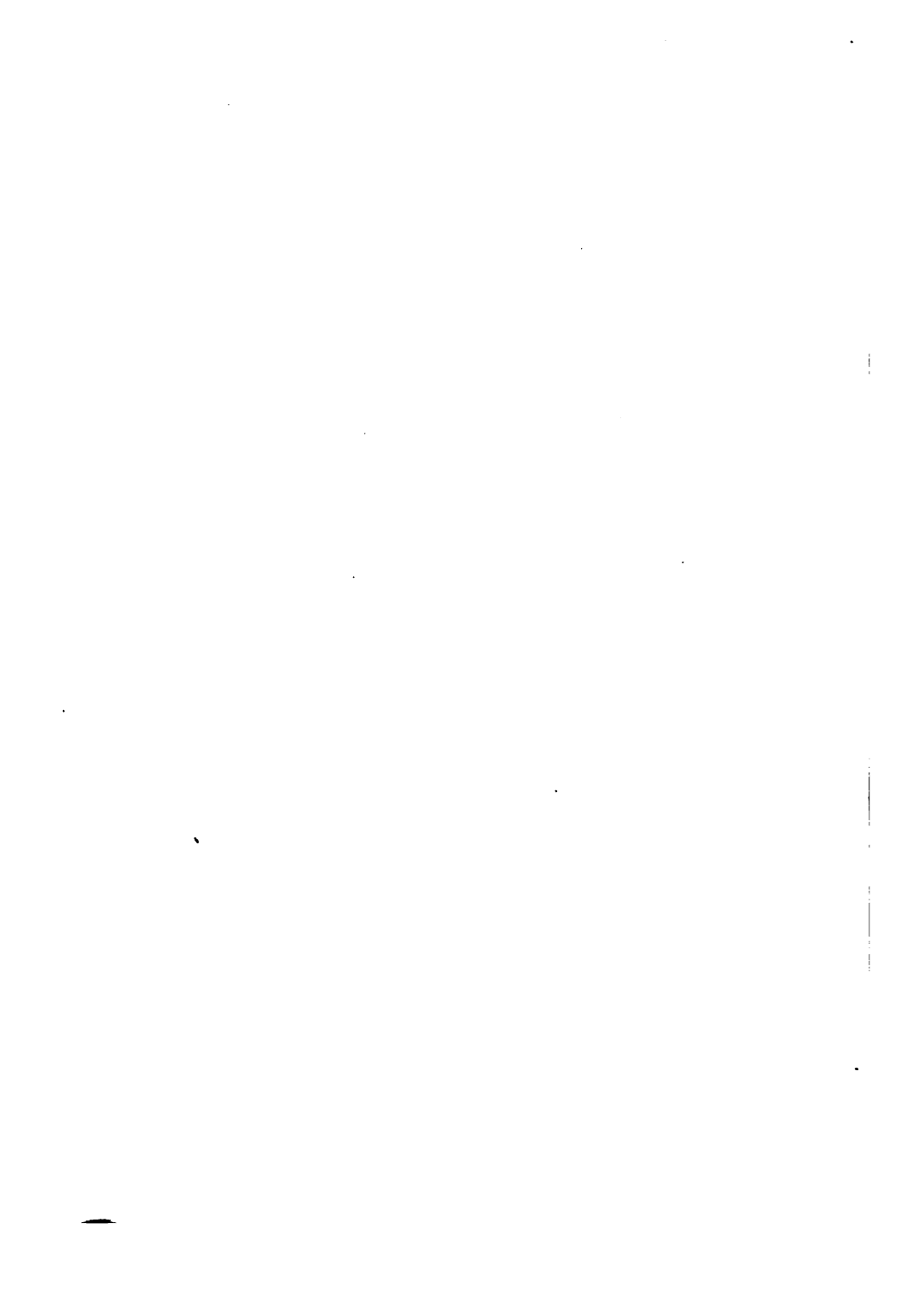
MEDICAL JURISPRUDENCE — Taylor.

DICTIONARY — Gould, Duane.

☞ Those desiring further information may address **PROFESSOR GILMAN D. FROST, M.D.**, Secretary, Hanover, N. H.



**THAYER SCHOOL OF CIVIL
ENGINEERING**



THAYER SCHOOL OF CIVIL ENGINEERING

FACULTY

WILLIAM JEWETT TUCKER, D.D., LL.D., *President.*

ROBERT FLETCHER, PH.D., *Director and Professor of Civil Engineering.*

JOHN V. HAZEN, C.E., *Associate Professor of Civil Engineering.*
—————, ¹ *Instructor in Civil Engineering and Surveying.*

The THAYER SCHOOL OF CIVIL ENGINEERING owes its existence to the late GENERAL SYLVANUS THAYER, Corps of Engineers, U. S. Army, a graduate of Dartmouth College in 1807, and afterwards distinguished as the organizer and "father" of the U. S. Military Academy. The aim of the founder could be realized only in an essentially post-graduate course, as the foundation was inadequate for large expansion. Hence the requirements for admission include the entire range of pure mathematics and physics, which occupy a considerable portion of the time in other engineering schools. The two years of study and practice are devoted exclusively to civil engineering in its technical aspects. This high standard has restricted the number of students, but the aim has been to secure the best quality without regard to quantity. Even in this age of specialists, students who can bring to their work, besides the special requirements, the larger mental training of a collegiate course, are better fitted to become broader men, and to fill positions of wider responsibility and usefulness.

It has been the consistent policy of the Thayer School, from the first, to offer a "general" course in civil engineering, which, properly developed, is fundamental to all the chief subdivisions. It has no facilities for special instruction in "mechanical engineering," with which electrical engineering may be classed, and none of

¹ Successor to Professor Arthur W. French, C.E., not yet appointed. John A. Gilman, B.S., Dart. Coll. '98, T.S.C.E. '99, assistant to Superintendent McKenzie, gives instruction on special occasions.

the plant which in some quarters is deemed needful to teach "mining engineering."

From 1871 to 1898 inclusive, 134 have been admitted at an average age exceeding 23 years, representing twelve different States and Canada. About 25 per cent of the admissions have come from outside sources; the remainder from Dartmouth College and associated institutions. About 25 per cent had previous practice in engineering, which, in several cases, had covered a year or more.

REQUIREMENTS FOR ADMISSION

1. English Grammar; 2. Geography; 3. History of the United States; 4. Arithmetic; 5. Book-keeping: only the simpler principles and methods of single and double entry; 6. Algebra, *Taylor* or *Bourdon*; 7. Geometry, *Legendre*; 8. Trigonometry and Mensuration; 9. Compass Surveying, *Murray*; 10. Descriptive Geometry, including Shades, Shadows, Perspective, *Church*; and Isometrical Drawing, *Warren*; 11. Analytic Geometry, *Bowser* or *Hardy*; 12. Calculus, *Hardy*; 13. Analytic Mechanics, *Wood's Elementary*; 14. Chemistry: as nearly as possible a course equivalent to Chemistry 1, 2, 3, and 4 of Dartmouth College courses; 15. Physics: as nearly as possible the equivalent of Physics 1, 2, 3, and 4 of the College courses; 16. Astronomy, *Young's Elements*; 17. Physical Geography and Meteorology.

The text-books indicated above are recommended, but others fully equivalent may be used.

A book of 200 pages, known as "Programme A," although prepared more than twenty years ago, indicates, in essential details, which cannot become obsolete, the course of preparation required. It will be sent on request to intending applicants and others who can make proper use of it.

Candidates for admission should be present for examination two days, at least, before August 1st. Notice of intention to apply should be given by May 1st, or earlier if possible. None will be received for advanced standing. Certificates from preparatory institutions, as to scholarship and character, will have due weight, but in all cases the candidate is *orally* examined, more especially with reference to the

essential principles of the branches numbered 6, 7, 8, 10, 11, 12, 13, 14, and 15. Prompt and accurate statement of principles and *definitions* is insisted upon, and a limited amount of blackboard work may be required. A neat set of mechanical drawings — constructions of important geometrical problems and a few leading problems of Descriptive Geometry — must be presented.

CONNECTION WITH UNDERGRADUATE COURSES

Students of approved ability and proficiency in the Chandler Scientific Course of the College may elect the first-year courses in the Thayer School for their work of Senior year. At the close of the year, they may formally graduate from the College with the degree of B.S. They may then become eligible for the degree of Civil Engineer, after pursuing the regular engineering courses of the second-year group. For such students, the engineering course is technically "post-graduate" only for the second or last year.

The conditions for such election are: a "standing" of at least 75 per cent, in the aggregate, in the subjects above specified, and not less than 75 per cent in more than three, nor less than 60 per cent in any one; an examination, as specified above, if required; an intention to pursue, eventually, the entire engineering course, either in the next consecutive year, or as soon thereafter as circumstances may permit.

COURSE OF STUDY AND PRACTICE

FIRST YEAR

Thirty-seven weeks, excluding all intermissions, each week comprising eleven half-days, of four to five hours, devoted to study, field-work, or office-work.

A. — THEORY AND PRACTICE OF SURVEYING.

I. Theory, complete adjustments, and testing of the essential instruments. Principles and preliminary practice of levelling, and location and measurement of lines and angles.

II. Principles and sufficient practice of all usual surveys and locations of lines and areas, topography, and the routine of an ordinary

railroad survey. The necessary calculations and other office-work of plotting, tracing, and blue-printing. Computation of earth-work by two or more methods, and use of the planimeter.

III. Special methods and practice; plane-table work; use of photography in surveying; laying out transition curves; location of the meridian and the finding of the latitude, azimuth, and time (by sextant and engineer's transit); city-surveying; theory of geodesy and under-ground surveying. Adjustment and comparison of observations.

August 1 to December 1, 186 half-days.

PROFESSORS FLETCHER AND HAZEN.

B. — ANALYTICAL MECHANICS AND GENERAL APPLICATIONS. Kinematics. Dynamics; statics and kinetics. Principles and working conditions, including experimental results on friction. Elements of Mechanism. Practical applications.

60 half-days.

PROFESSOR FLETCHER.

C. — MATERIALS OF ENGINEERING. 1. Physical and chemical properties, and production of limes, cements, mortars, natural and artificial stone, timber, iron, steel, zinc, copper, aluminum, etc.; durability, — preservative materials; a brief course in Mineralogy. 2. Mechanical properties, analytically and experimentally treated. 3. Laboratory tests of cements, iron, steel, wood, and other materials.

72 half-days.

PROFESSORS FLETCHER AND HAZEN.

D. — ORDINARY AND SPECIAL STRUCTURAL WORK AND OPERATIVE DETAILS. Course begun. Elementary courses on stone-cutting, masonry and foundations, and some masonry structures.

32 half-days.

PROFESSOR HAZEN.

E. — TRUSSES, ARCHES, SUSPENSION BRIDGES, ETC. Course begun. Graphical statics and other analysis, applied to girders and simple trusses. Details of common forms; one or two ordinary designs.

40 half-days.

PROFESSORS FLETCHER AND HAZEN.

G. — ROADS, RAILWAYS AND TRANSPORTATION IN GENERAL. Course begun. Roads, streets, and pavements, — construction and maintenance.

16 half-days.

PROFESSOR HAZEN.

SECOND YEAR

Thirty-two weeks, of eleven half-days each, from about September 15 to May 1.

D. — (*concluded*). Carpentry and framing; metal work; advanced reading on masonry and foundations; theory of retaining walls; dams; chimneys; high-framed buildings; fire-proof and slow-burning construction; renewals and enlargements. Engineering contracts and specifications. Auxiliary works and machinery. Inspection.
44 half-days. PROFESSOR FLETCHER.

E. — (*concluded*). Analysis of stresses in trusses, framed arches, stone arches, and suspension bridges; details and maintenance. Other framed structures. Tours for inspection. One design worked out.
66 half-days. PROFESSOR FLETCHER.

F. — ROCKWORK, TUNNELLING, AND MINING. Outlines of geology, —vacation reading. Explosives and blasting; special appliances and methods in subterranean works. Reading and lectures.
16 half-days. PROFESSOR FLETCHER.

G. — (*concluded*). Economics of location, construction, and maintenance of railways. A brief study of street railways (electric and cable-traction, etc.), mountain railways, telpherage, and marine transportation.
40 half-days. PROFESSOR FLETCHER.

H. — HYDRAULIC ENGINEERING. Statics and dynamics of fluids; principles and data of Hydraulics; collection, storage, purification, and distribution of water for town supply, power, and irrigation; hydraulic motors: theory, construction, and operation; development of water-power. Gauging of Connecticut River. Measurements of flow by weirs and nozzles, of efficiency of motors, friction in pipes, etc.
55 half-days. PROFESSOR FLETCHER.

I. — HEAT, HEAT ENGINES, AND POWER. Principles of Thermodynamics; fuels, and their combustion; steam. Heat engines: construction and operation of typical forms; application of laws. Development and transmission of power.
33 to 35 half-days. PROFESSOR FLETCHER.

J. — SANITARY ENGINEERING. Drainage and sewerage; systems and appliances; governing principles. Heating and ventilation. Special study of "Separate Systems" and methods of sewage disposal. Sand filtration of water and sewage.

25 to 30 half-days.

PROFESSOR FLETCHER.

K. — CANALS. IMPROVEMENT OF RIVERS AND HARBORS. Principles relating to improvement; surveys and observations; construction in different cases, — methods and means of procedure. (Briefly by reading and lectures.)

15 to 18 half-days.

PROFESSOR FLETCHER.

GRADUATING THESIS. Reading and investigation during the year, as opportunity permits. About four weeks of allotted time, near the end of the year.

METHODS OF INSTRUCTION; PRACTICE. During the first year instruction is given chiefly by constant recitations from text-books, and ample practice in the field and laboratory. During the second year the character and range of the subjects call for wider reading of treatises and current technical literature, which is promoted by carefully prepared programmes of the courses, giving all important references. This is supplemented by recitations, lectures, and examinations.

The amount of field-work and other practice is made sufficient only to elucidate and emphasize the important principles. In this connection *tours*, for the study and inspection of works in progress or completed, are made when advantageous for purposes of instruction.¹ Heretofore suitable professional employment during the summer vacation has been usually secured for Thayer students. Either a written or verbal report, in relation to his summer work, or to some engineering structure or operation which he has specially examined, is expected from each student at the close of this vacation.²

¹ Tours have been made to Boston, Lowell, and Lawrence, Mass.; to New York and vicinity; to St. Albans, Vt., and region *en route*; to Portland, Me., and vicinity; and for inspection of bridges, water-power plants, etc., in the region nearer at hand.

² No definite assurance of summer employment can be given. In former years engagements for the summer season have been made as follows: under the United States Coast and Geodetic Survey; in city engineers' offices; as draughtsmen for bridge works; surveys and superintendence of construction of sewerage works, water-works, mill buildings, etc.; on works for harbor improvements under the United States Government; inspection of iron, Brooklyn Elevated Railway; survey for irrigation works in New Mexico; Red River bridge, — pneumatic foundations, etc.

TERMS, EXAMINATIONS, AND EXPENSES

The course of study and practice continues through two years, commencing for the entering class, August first, and continuing until near the first of May. This allows nineteen weeks of vacation for summer employment when procurable. There may be a short recess at the holiday season. Examinations are held from time to time, as the work progresses. The *annual examination* is held during the latter part of April, before the Board of Overseers.

Tuition is one hundred dollars per annum, one-half to be paid each term in advance. There is no provision for pecuniary aid.

The annual expenses of an economical student will vary between \$350 and \$400, including tuition, books, and stationery, board, fuel, light, and drawing instruments.

After a satisfactory final examination before the Board of Overseers and Examining Committee, and the acceptance of a graduating thesis,¹ the degree of *Civil Engineer* will be conferred.

ADVANTAGES. Retired and healthful situation, favorable to constant attention to the work in hand, yet sufficiently accessible to interesting engineering works; small classes to which experienced instructors give close supervision, — in the first year, three to eight hours daily; hence opportunity for each student to make full use of every facility available; a region favorable for unhampered out-door work, in its varied topography and other conditions, natural and artificial; and, finally, for those to whom expense is a very serious matter, a rate of tuition about one-half that at similar institutions of high rank. It is proper to remark, however, that the highest rate anywhere charged is low in proportion to the cost of equipping and operating effectively a technical school; also that extensive equipment with expensive machinery, models, and other appliances may be, and sometimes is, overdone.

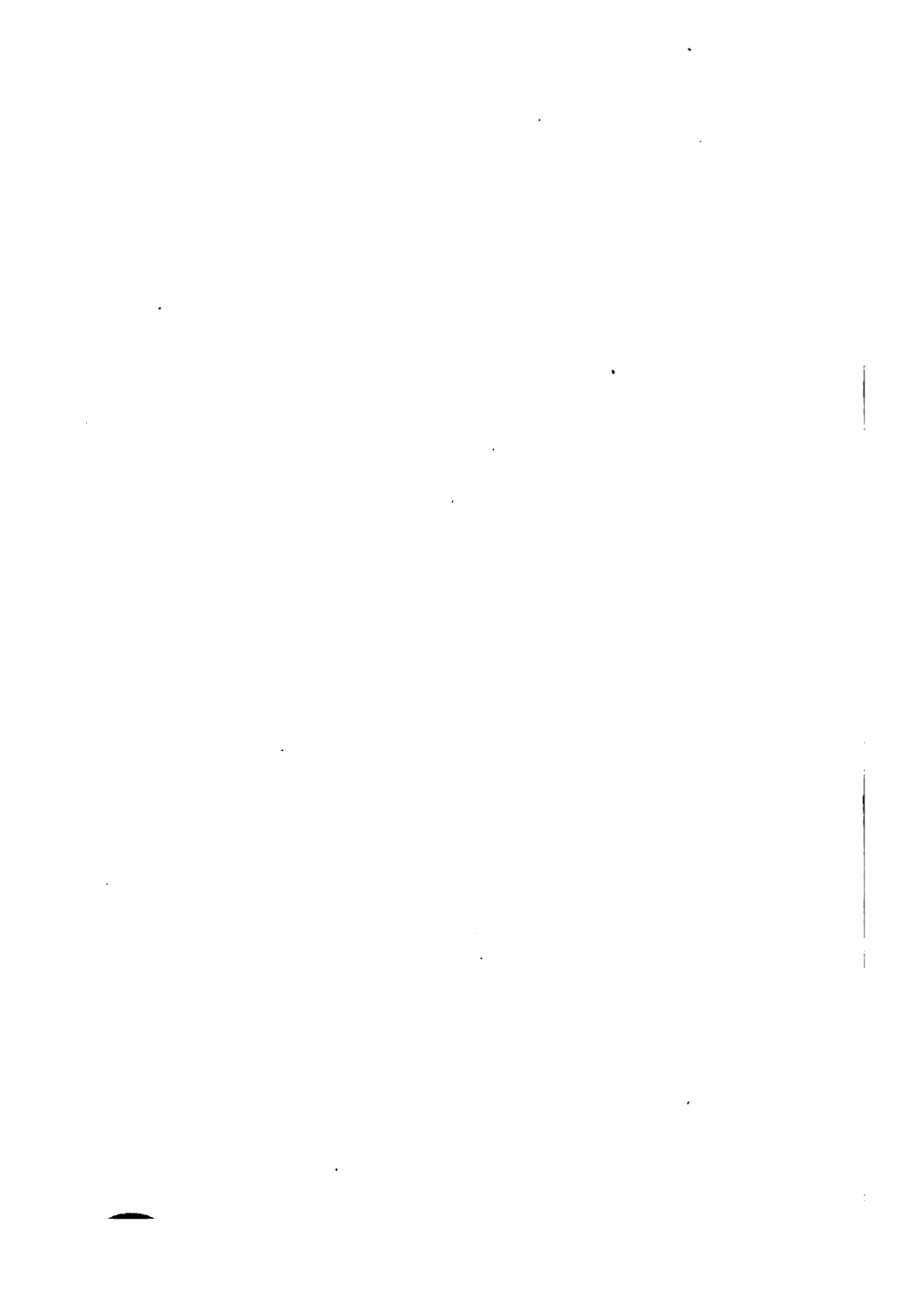
¹ A thesis by two members of the class of 1893, on "Testing Cement by Transverse Breaking," took the first prize of \$75 in a competition instituted by the editors of *Engineering News*, and open to all the Engineering Schools in the United States and Canada. A thesis on "Effect of Freezing on Cement Mortars" divided the second prize in the like competition of 1894. Another thesis received Honorable Mention in the competition of 1895.

The commodious brick building which the Thayer School now occupies exclusively as its home was secured in part through the generous aid of friends in New York and Boston, and the personal efforts of the late Professor Hiram A. Hitchcock; also in part through the action of the Trustees of the College in discharge of the responsibility assumed in the acceptance of the "instrument of gift." The water-works afford all needed conditions for hydraulic experiments under a pressure head of about 190 feet, in a laboratory equipped for all such operations of recognized importance. A testing machine of 27,000 pounds capacity for tension, compression or transverse stress, affords sufficient practical illustration of the mechanics of materials; cement testing appliances, a mineralogical laboratory, a set of sand-filters, ample provision of engineers' and surveyors' instruments both for field and office work, and a good working library of the most important and the latest engineering literature, accessible at all times, — are some of the facilities for the various courses of instruction.

A bulletin giving present address and occupation of graduates and all former students, and other information, is issued from time to time, and may be had on application.

For further information, address the President, or PROFESSOR ROBERT FLETCHER, Director.

ALUMNI ASSOCIATIONS



ALUMNI ASSOCIATIONS

THE GENERAL ASSOCIATION

FOUNDED IN 1854

President, ALFRED K. HAMILTON, '63.

Vice-Presidents, { STEPHEN M. CROSBY, '49.
ARTHUR L. LAWRENCE, '88.

Secretary, FRANK A. SHERMAN, '70, Hanover, N. H.

Statistical Secretary, JOHN M. COMSTOCK, '77, Chelsea, Vt.

Treasurer, PERLEY R. BUGBEE, '90, Hanover, N. H.

Executive Committee :

JOHN L. HILDRETH, '64 (*Chairman*). GEORGE H. M. ROWE, '64.

WILDER L. BURNAP, '63. HOWARD F. HILL, '67.

ISAAC F. PAUL, '78 (*Secretary*). CHARLES F. RICHARDSON, '71.

VICTOR I. SPEAR, '74.

Committee on Alumni Trustees :

HORACE RUSSELL, '65 (*Chairman*). JOHN P. GEORGE, '78.

IRVING W. DREW, '70. JOHN L. HOPPER, '77.

THOMAS W. PROCTOR, '79.

The membership includes all graduates of the College, the Thayer School of Civil Engineering, and the Chandler School of Science and the Arts. Others who receive from the College an Honorary Degree, or are elected at an Annual Meeting, shall be honorary members, but without the right of voting.

The Annual Meeting is held in the old chapel in Dartmouth Hall on Tuesday afternoon of Commencement week. The Alumni Dinner occurs on Wednesday, Commencement Day.

☞ The attention of the Alumni is called to the fact that the Commencement exercises occur on Wednesday instead of Thursday.

By an arrangement with the Trustees of the College, five of their number are elected to their office upon the nomination by ballot of all Alumni of the College of three years' standing, one vacancy occurring in the Board at each Commencement.

Ballot forms, containing the names of five candidates who have been selected by the Nominating Committee for the vacancy, are sent to all Alumni two months before Commencement, and the voting closes at 6 P.M. on Tuesday evening of Commencement week.

LOCAL ASSOCIATIONS

BOSTON ASSOCIATION, FOUNDED IN 1864

President, ARTHUR LITTLE, D.D., '60.

Secretary, DANIEL B. RUGGLES, '90, 73 Tremont St.

Annual Reunion, third Wednesday in January.

NEW YORK ASSOCIATION, FOUNDED IN 1866

President, CHARLES H. BECKET, '81.

Secretary, JORDAN J. ROLLINS, '92, 32 Nassau St.

Annual Reunion, last Friday in January.

CINCINNATI ASSOCIATION, FOUNDED IN 1875

President, JOHN S. CONNER, '65.

Secretary, GEORGE B. PARKINSON, '75, 26 Chamber of Commerce.

Annual Reunion in January.

WASHINGTON ASSOCIATION, FOUNDED IN 1876

President, HENRY M. BAKER, '63.

Secretary, WILLIAM M. HATCH, '86, Room 209, Patent Office.

Annual Reunion in January.

CHICAGO ASSOCIATION, FOUNDED IN 1876

President, HENRY D. PIERCE, '72.

Secretary, WALTER E. MCCORNACK, '97, 100 Washington St.

Annual Reunion in December.

NORTHWEST ASSOCIATION, FOUNDED IN 1880

President, CHARLES H. COOPER, '77.

Secretary, CHARLES L. SAWYER, '88, 827 15th Ave., Minneapolis, Minn.

Annual Reunion at Minneapolis in January.

ALUMNI ASSOCIATIONS

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PACIFIC COAST ASSOCIATION, FOUNDED IN 1881

President, THOMAS FLINT, Jr., '80.

Secretary, THOMAS A. PERKINS, '90, Mills Building, San Francisco, Cal.

Annual Reunion, second Thursday in April.

MANCHESTER (N. H.) ASSOCIATION, FOUNDED IN 1881

President, ELIJAH M. TOPLIFF, '52.

Secretary, ARTHUR H. HALE, '86.

Annual Reunion, second Tuesday in January.

CONCORD (N. H.) ASSOCIATION, FOUNDED IN 1891

President, CLAUDIUS B. WEBSTER, M.D., '36.

Secretary, GEORGE H. MOSES, '90.

Annual Reunion last Wednesday in January.

CENTRAL AND WESTERN MASSACHUSETTS ASSOCIATION, FOUNDED IN 1892

President, FRANK P. GOULDING, '63.

Secretary, ELMER C. POTTER, '92, 340 Main St., Worcester.

Annual Reunion at Worcester or at Springfield in February.

VERMONT ASSOCIATION, FOUNDED IN 1893

President, WILDER L. BURNAP, '63.

Secretary, FRED A. HOWLAND, '87, Montpelier.

Annual Reunion at Montpelier in October.

SOUTHEASTERN NEW HAMPSHIRE ASSOCIATION, FOUNDED IN 1893

President, LEVI G. HILL, M.D., '38. (Deceased.)

Secretary, CHARLES A. FAIRBANKS, M.D., '71, Dover.

Annual Reunion at Dover in February.

"THE GREAT DIVIDE" ASSOCIATION, FOUNDED IN 1895

President, RALPH TALBOT, '72.

Secretary, FRANK E. GOVE, '88, Denver, Colo.

Annual Reunion at Denver second Tuesday in January.

DETROIT ASSOCIATION, FOUNDED IN 1895

President, SULLIVAN M. CUTCHEON, '56.

Secretary, WILLIAM S. SAYRES, '76, 602 Congress St., East.

ROCKY MOUNTAIN ASSOCIATION, FOUNDED IN 1895

President, CLINTON H. MORE, '74.

Secretary, ARTHUR G. LOMBARD, '79, Helena, Mont.

"OF THE PLAIN" ASSOCIATION, FOUNDED IN 1898

President, IRWEN LEVISTON, '82.

Secretary, J. IRVING READ, '94, 2615 Capitol Ave., Omaha.

MEDICAL SCHOOL ASSOCIATION, FOUNDED IN 1886

President, GEORGE COOK, M.D., '69.

Secretary, WILLIAM T. SMITH, M.D., '79, Hanover, N. H.

Annual Reunion at Concord, N. H., at the time of the meeting of the New Hampshire Medical Society, about June first.

THE DARTMOUTH CLUB OF BOSTON, FOUNDED IN 1890

President, MELVIN O. ADAMS, '71.

Secretary, RALPH S. BARTLETT, '89, 53 State Street.

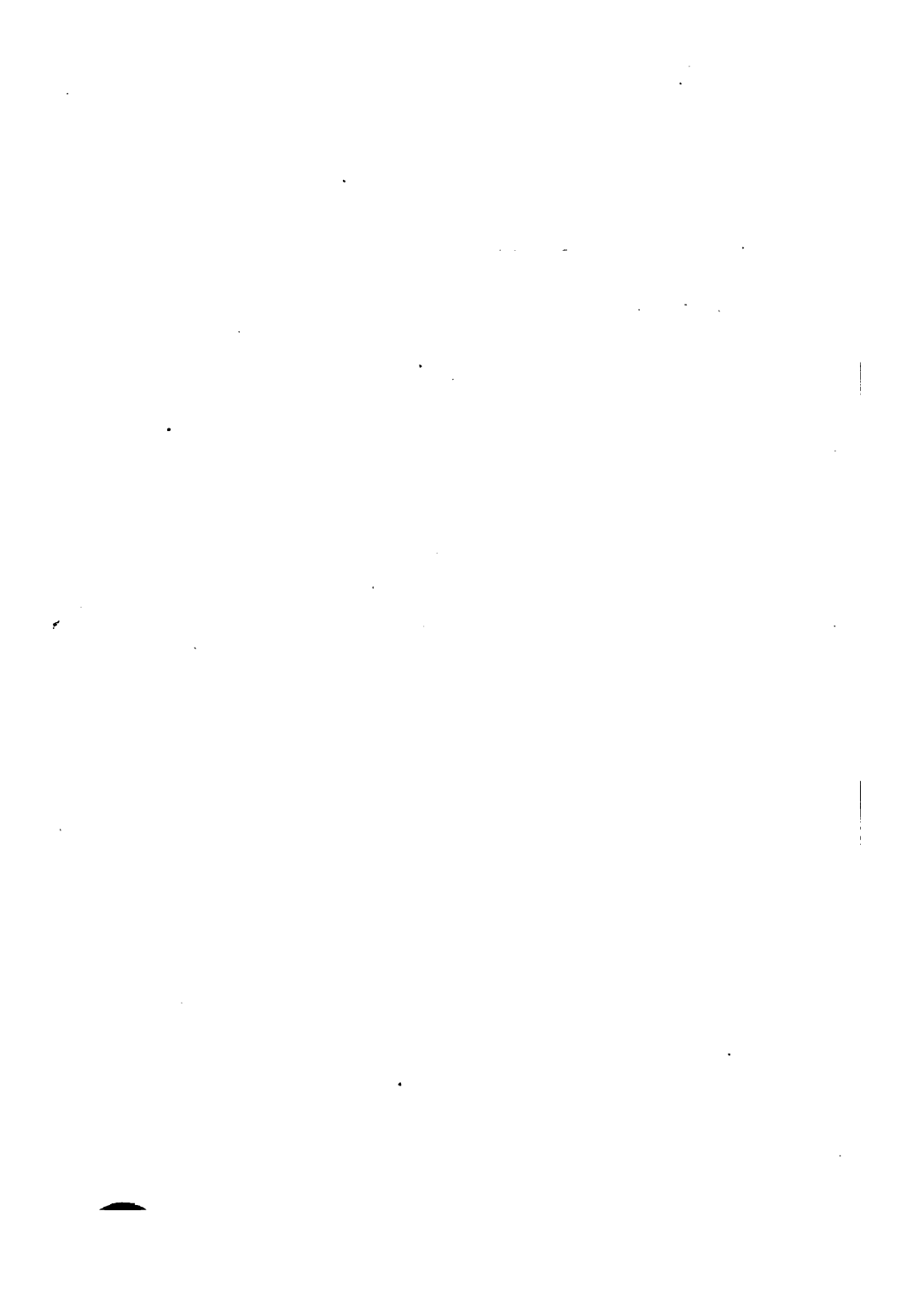
Monthly meetings and dinners are held each month during the year, excepting January, July, August, and September. They are held alternately at the University Club, 270 Beacon street, on the evening of the second Friday of the month, and at the Exchange Club, corner of Milk and Batterymarch streets, on the afternoon of the second Saturday of the month. The Annual Meeting is that held in December.

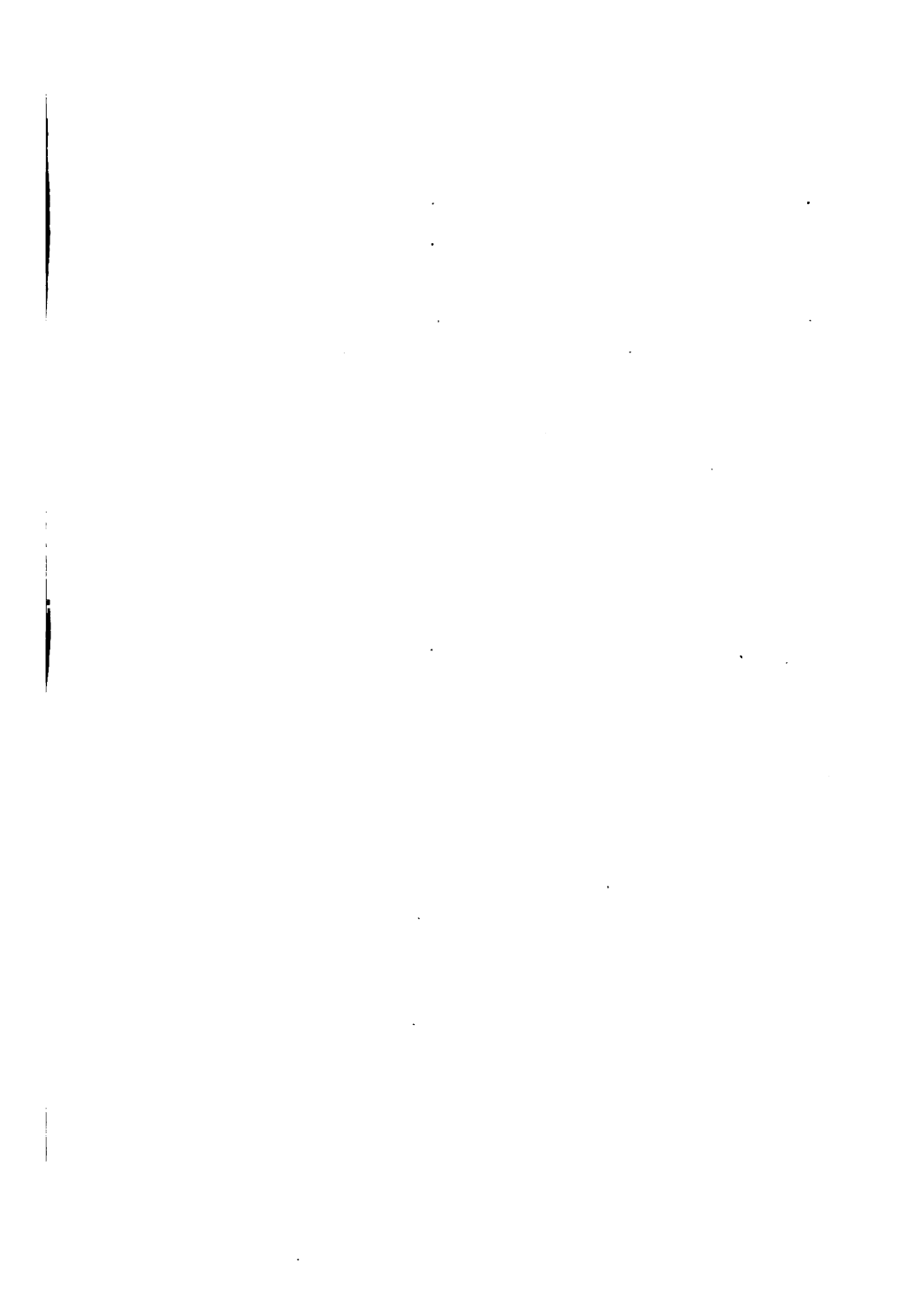
PUBLICATIONS

All graduates are hereby earnestly requested to forward their publications to the College Librarian for preservation in the Alumni alcove.

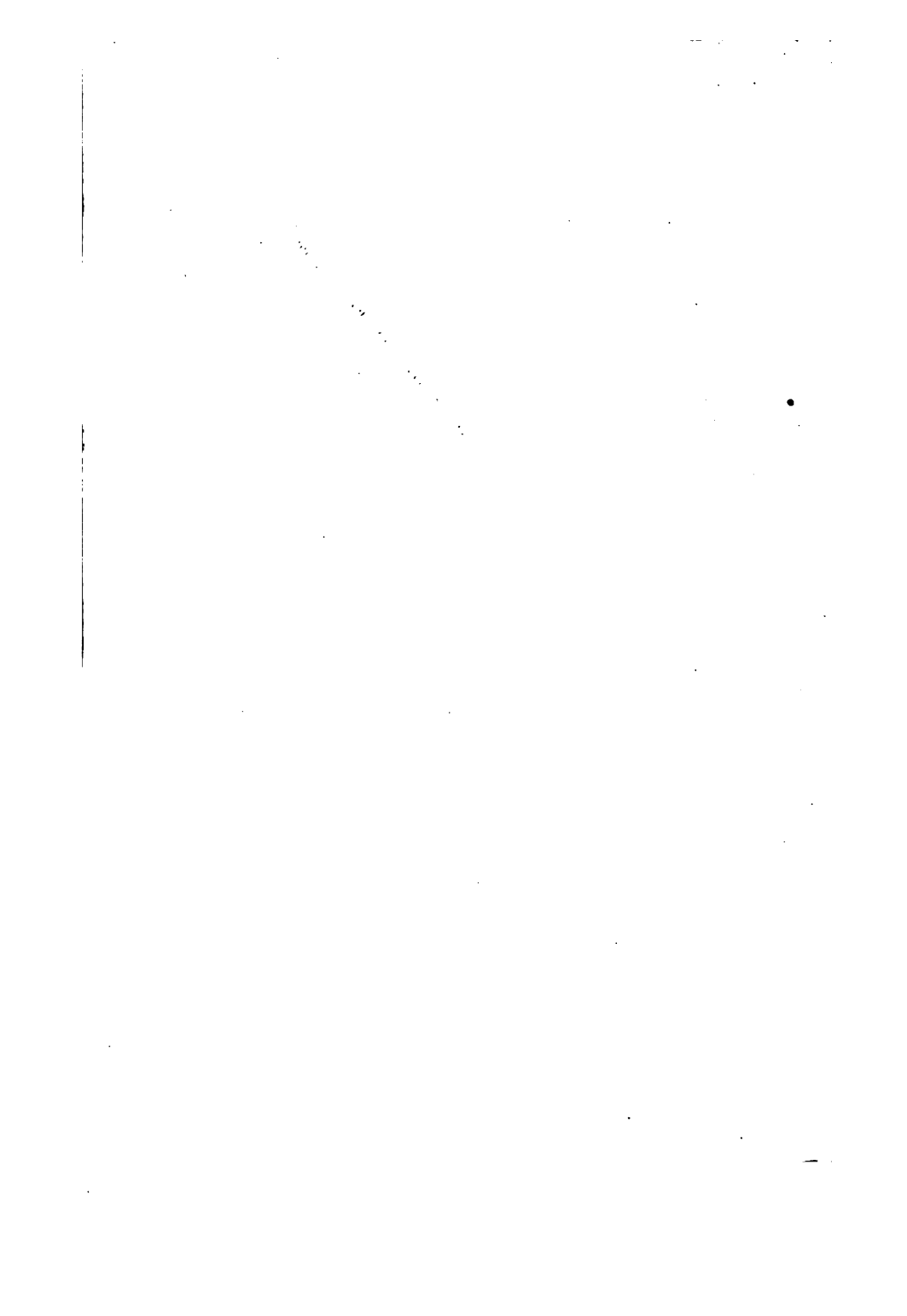
The General Catalogue (containing the residences and occupations of all living graduates, so far as known) was published in June, 1890. The next edition of the General Catalogue may be expected in 1900. An Obituary Record is published annually at Commencement, and will be sent to all graduates who so request. All persons who can supply information for the General Catalogue and the Necrologies are requested to communicate it to the Dean, or to the Librarian. The General Catalogue can be obtained by sending fifty cents to the Dean of the Faculty.

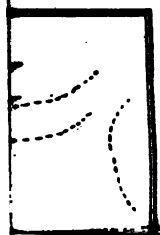
A list of the addresses of the graduates of the College, revised to December, 1897, was issued early in the present year. All corrections of errors in this list should be sent to the Dean or to the Librarian.











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CATALOGUE
OF
DARTMOUTH COLLEGE
TOGETHER WITH THE
MEDICAL SCHOOL
AND THE
THAYER SCHOOL OF CIVIL ENGINEERING
FOR THE YEAR
1899-1900

HANOVER, N. H.
PRINTED FOR THE COLLEGE
1899

UNIVERSITY PRESS:
JOHN WILSON AND SON, CAMBRIDGE, U.S.A.

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COLLEGE CALENDAR

DARTMOUTH COLLEGE

1899

- September 11, 12, 13 Examinations for Admission — Monday to Wednesday.
September 14 . . . Academic year began — Thursday morning.
October 11 . . . Athletic Field-day; a holiday.
November 30 . . . Thanksgiving Day; a holiday.

Recess from December 20, 10.30 A.M., to January 3, inclusive.

1900

- Jan'y 25 to Feb'y 3 . First Semester Examinations.
February 22 . . . Washington's Birthday; a holiday.
March 14 . . . The Smith and "Class of 1866" Prize Speaking — 8 P.M.

Recess from April 11, 10 A.M., to April 25, inclusive.

- June 12 to June 22 . Second Semester Examinations.
June 21, 22, 23 . . Examinations for Admission.
June 23 . . . The Rollins Prize Speaking — Saturday, 8 P.M.
June 24 . . . Baccalaureate Discourse — Sunday, 10.30 A.M.
Address before the Y. M. C. A. — Sunday, 8 P.M.
June 25 . . . Class Day Exercises — Monday, 2.30 P.M.
Promenade Concert in College Yard — 10 P.M.
June 26 . . . Annual Meeting of the Phi Beta Kappa Society — Tuesday, 8.30 A.M.
Oration before the Alumni Association — 10.30 A.M.
Annual Meeting of Alumni Association — 3 P.M.
Greek Letter Society Reunions — 5 P.M.
June 27 . . . COMMENCEMENT — Last Wednesday in June.

Summer Vacation of Eleven Weeks

1900

- September 10, 11, 12 Examinations for Admission — Monday to
Wednesday.
September 13 . . Academic year begins — Thursday morning.
December 19 Recess of two weeks begins.

AMOS TUCK SCHOOL OF ADMINISTRATION AND FINANCE

Calendar same as for Dartmouth College.

THAYER SCHOOL OF CIVIL ENGINEERING

1899

- August 2 Year of thirty-nine weeks for second class
began.
September 4 Year of thirty-five weeks for first class began.
December 23 Recess of eight days begins.

1900

- May 1 Year for first class ends.

Summer Vacation for second class begins.

MEDICAL SCHOOL

1899

- July 13 Medical Lectures began.
September 14 First Year Course began.

Recess from December 20, 10.30 A.M., to January 3, inclusive.

1900

- February 26, 27 . . Examinations — Monday and Tuesday.
February 27 Anniversary Graduating Exercises — Tuesday.

Annual Vacation of Twenty Weeks.

- July 17 Medical Lectures begin.
September 13 First Year Course begins.

CHARTER



THE
CHARTER OF DARTMOUTH COLLEGE

GEORGE THE THIRD by the grace of GOD of Great Britain
France and Ireland KING Defender of the Faith, and so
forth. —

To all to whom these Presents shall come.

GREETING.

WHEREAS it hath been represented to our Trusty and well beloved JOHN WENTWORTH Esquire Governor and Commander in Chief in and over our Province of NEW HAMPSHIRE in New England in AMERICA, that the Reverend ELEAZER WHELOCK of Lebanon in the Colony of Connecticut in New England aforesaid, now Doctor in Divinity, did on or about the year of our Lord one thousand seven hundred and Fifty four, at his own expence, on his own Estate and Plantation set on foot an INDIAN Charity School and for several years through the assistance of well-disposed Persons in America, cloathed, maintained and educated a number of the Children of the Indian Natives, with a view to their carrying the Gospel in their own Language and spreading the knowledge of the great Redeemer among their Savage Tribes, and hath actually employ'd a number of them as Missionaries and Schoolmasters in the Wilderness for that purpose : and by the blessing of GOD upon the endeavours of said Wheelock the design became reputable among the Indians insomuch that a larger number desired the Education of their Children in said School ; and were also disposed to receive Missionaries and Schoolmasters in the Wilderness more than could be supported by the charitable Contributions in these American Colonies. — WHEREUPON the said Eleazer Wheelock thought it expedient that endeavours should be used to raise Contributions from well disposed Persons in England for the carrying on and extending said undertaking, And for that purpose said Eleazer Wheelock requested the Reverend Nathaniel

Whitaker now Doctor in Divinity to go over to England for that purpose, and sent over with him the Reverend Samson Occom an Indian Minister who had been educated by the said Wheelock, And to enable the said Whitaker to the more successful performance of said Work on which he was sent, said Wheelock gave him a full Power of Attorney by which said Whitaker solicited those worthy & generous Contributors to the Charity viz^t. The Right Honorable WILLIAM Earl of DARTMOUTH, The Honorable Sir SIDNEY STAFFORD SMYTHE Knight, one of the Barons of his Majesty's Court of Exchequer, JOHN THORNTON of Clapham in the County of Surrey Esquire, SAMUEL ROFFEY of Lincoln's Inn fields in the County of Middlesex Esquire, CHARLES HARDY of the parish of Saint Mary-le-bonne in said County Esquire, DANIEL WEST of Christ's church Spitalfields in the County aforesaid Esquire, SAMUEL SAVAGE of the same place Gentleman, JOSIAH ROBERTS of the parish of Saint Edmund the King Lombard Street, London Gentleman, and ROBERT KEEN of the parish of Saint Botolph Aldgate London, Gentleman, to receive the several Sums of Money which should be contributed, and to be Trustees for the Contributors to such Charity, which they chearfully agreed to. Whereupon the said Whitaker did by virtue of said Power of Attorney constitute and appoint the said Earl of Dartmouth Sir Sydney Stafford Smythe, John Thornton, Samuel Roffey, Charles Hardy & Daniel West Esquires, and Samuel Savage Josiah Roberts and Robert Keen Gentlemen to be Trustees of the Money which had then been contributed, and which should by his means be contributed for said Purpose; which Trust they have accepted as by their engrossed Declaration of the same under their Hands and Seals well executed fully appears, and the same has also been ratified by a deed of Trust well executed by the said Wheelock; — And the said Wheelock further represents that he has by power of Attorney for many weighty reasons, given full Power to the said Trustees to fix upon and determine the place for said School most subservient to the great end in view, and to enable them understandingly to give the preference, the said Wheelock has laid before the said Trustees the several Offers which have been generously made in the several Governments in America to encourage and invite the settlement of said School among them for their own private emolument, and the increase of Learning in their respective places as well as for the furtherance of the general design in view. And whereas a large number of the Proprietors of Lands in the western part of this our Province of New Hampshire,

animated & excited thereto by the generous example of his Excellency their Governor, and by the liberal Contributions of many Noblemen and Gentlemen in England; and especially by the consideration that such a situation would be as convenient as any for carrying on the great design among the Indians; and also considering that without the least impediment to the said design the same School may be enlarged & improved to promote Learning among the English, & be a means to supply a great number of Churches & Congregations which are likely soon to be formed in that new Country with a learned & orthodox ministry; they the said Proprietors have promised large Tracts of Land for the uses aforesaid, provided the School shall be settled in the western part of our said Province. And they the said Right Honorable, Honorable and worthy Trustees before mentioned having maturely consider'd the reasons & arguments in favour of the several Places proposed, have given the preference to the western part of our said Province lying on Connecticut River, as a situation most convenient for said School; And the said Wheelock has further represented a necessity of a legal Incorporation in order to the safety and well being of said Seminary, and its being capable of the tenure & disposal of Lands & bequests for the use of the same. And the said Wheelock has also represented that for many weighty reasons it will be expedient at least in the infancy of said Institution or 'till it can be accommodated in that new Country and he & his Friends be able to remove and settle by and round about it, that the Gentlemen whom he has already nominated in his last Will (which he has transmitted to the aforesaid Gentlemen of the Trust in England) to be Trustees in America should be of the Corporation now proposed & also as there are already large Collections for said School in the hands of the aforesaid Gentlemen of the Trust in England and all reason to believe from their singular wisdom, piety and zeal to promote the Redeemers cause (which has already procured for them the utmost confidence of the Kingdom) we may expect they will appoint Successors in time to come who will be men of the same Spirit whereby great good may & will accrue many ways to the institution & much be done by their example and influence to encourage and facilitate the whole design in view; for which reason said Wheelock desires that the Trustees aforesaid may be vested with all that power therein which can consist with their distance from the same KNOW YE THEREFORE, that We considering the Premises and being willing to encourage the laudable & charitable design of spreading Christian

Knowledge among the Savages of our American Wilderness and also that the best means of Education be established in our Province of New Hampshire for the benefit of said Province, DO of our special grace certain knowledge and mere motion by and with the advice of our Council for said Province by these Presents Will, ordain, grant & constitute that there be a College erected in our said Province of New Hampshire by the name of DARTMOUTH COLLEGE for the education & instruction of Youth of the Indian Tribes in this Land in reading, writing & all parts of Learning which shall appear necessary and expedient for civilizing & christianizing Children of Pagans as well as in all liberal Arts and Sciences; and also of English Youth and any others, and the Trustees of said College may and shall be one body corporate and politick in deed action & name, and shall be called, named & distinguish'd by the Name of the TRUSTEES of DARTMOUTH COLLEGE And further we have willed given granted constituted and ordained and by this our present Charter of our special grace certain knowledge & mere motion with the advice aforesaid DO for us our heirs and successors forever will give grant constitute & ordain that there shall be in the said DARTMOUTH COLLEGE from henceforth and forever a body politick consisting of Trustees of said Dartmouth College And for the more full & perfect erection of said Corporation & body politick consisting of Trustees of Dartmouth College We of our special grace certain knowledge & mere motion DO by these Presents for us our Heirs & Successors make ordain constitute and appoint our trusty and well beloved JOHN WENTWORTH, Esquire Governor of our said Province and the GOVERNOR of our said Province of New Hampshire for the time being and our Trusty and well beloved THEODORE ATKINSON Esquire now President of our Council of our said Province GEORGE JAFFREY & DANIEL PIERCE Esquires both of our said Council and PETER GILMAN Esquire now Speaker of our House of Representatives in said Province & WILLIAM PITKIN, Esquire one of the Assistants of our Colony of Connecticut & our said trusty and well beloved ELEAZER WHEELLOCK of Lebanon Doctor in Divinity, BENJAMIN POMROY of Hebron JAMES LOCKWOOD of Weathersfield TIMOTHY PITKIN & JOHN SMALLEY of Farmington & WILLIAM PATTEN of Hartford all of our said Colony of Connecticut Ministers of the Gospel. (the whole number of said Trustees consisting and hereafter forever to consist of TWELVE & no more) to be Trustees of said Dartmouth College in this our Province of New Hampshire And we do further of our special grace certain knowl-

edge and mere motion for us our Heirs and Successors will give grant and appoint that the said Trustees & their Successors shall forever hereafter be in deed act & name, a body corporate & politick & that they the said body corporate & politick shall be known & distinguished in all deeds grants bargains sales writings evidences or otherwise howsoever, & in all Courts forever hereafter plead and be impleaded by the Name of the Trustees of Dartmouth College and that the said Corporation by the name aforesaid shall be able and in law capable for the use of said Dartmouth College to have get acquire purchase receive hold possess and enjoy tenements hereditaments jurisdictions and franchises for themselves and their Successors in fee simple or otherwise howsoever & to purchase receive or build any House or Houses or any other buildings as they shall think needful & convenient for the use of said Dartmouth College and in such Town in the western part of our said Province of New Hampshire as shall by said Trustees or the major part of them be agreed on their said agreement to be evidenced by an instrument in writing under their hands ascertaining the same And also to receive and dispose of any Lands goods chattels and other things of what nature soever for the use aforesaid And also to have accept and receive any rents profits annuities gifts legacies donations or bequests of any kind whatsoever for the use aforesaid so nevertheless that the yearly value of the Premises do not exceed the Sum of six thousand pounds Sterling¹ and therewith or otherwise to support and pay as the said Trustees or the major part of such of them as are regularly convened for that purpose shall agree the President Tutors and other Officers & Ministers of said Dartmouth College & also to pay all such Missionaries and Schoolmasters as shall be authorized appointed & employed by them for civilizing & christianizing & instructing the Indian Natives of this Land their several allowances & also their respective annual Salaries or allowances & all such necessary & contingent charges as from time to time shall arise & accrue relating to the said Dartmouth College And also to bargain sell let or assign Lands tenements or hereditaments goods, or chattels & all other things whatsoever by the name aforesaid in as full and ample a manner to all intents and purposes as a natural person or other body politick or corporate is able to do by the laws of our realm of Great Britain or of said province of New Hampshire And further of our special grace certain knowledge & mere motion to the intent that our said Corporation & body politick

¹ Subsequently amended so as to remove all limitations.

may answer the end of their erection & Constitution, & may have perpetual succession & continuance forever We do for us our heirs and Successors will give & grant unto the Trustees of Dartmouth College & to their Successors forever that there shall be once a year & every year a meeting of said Trustees held at said Dartmouth College at such time as by said Trustees or the major part of them at any legal meeting of said Trustees shall be agreed on the first meeting to be called by the said Eleazer Wheelock as soon as conveniently may be within one year next after the enrollment of these our Letters Patent at such time & place as he shall judge proper And the said Trustees or the major part of any seven or more of them shall then determine on the time for holding the annual Meeting aforesaid which may be alter'd as they shall hereafter find most convenient And we further order and direct that the said Eleazer Wheelock shall notify the time for holding said first meeting to be called as aforesaid by sending a letter to each of said Trustees & causing an advertizement thereof to be printed in the New Hampshire Gazette & in some publick News Paper printed in the Colony of Connecticut But in case of the Death or incapacity of the said Wheelock then such meeting to be notified in manner aforesaid by the Governor or Commander in Chief of our said Province for the time being And we do also for us our Heirs & successors hereby will give and grant unto the said Trustees of Dartmouth College aforesaid & to their Successors forever that when any seven or more of the said Trustees or their Successors are convened & met together for the service of said Dartmouth College at any time or times such seven or more shall be capable to act as fully & amply to all intents & purposes as if all the Trustees of said College were personally present— & all affairs & actions whatsoever under the care of the said Trustees shall be determined by the majority or greater number of those seven or more Trustees so convened & met together And we do further will ordain & direct that the President Trustees, Professors & Tutors & all such Officers as shall be appointed for the publick instruction & government of said College shall before they undertake the execution of their Offices or Trusts or within one year after take the Oaths & subscribe the declaration provided by an act of Parliament made in the first year of King George the first entitled “An act for the further security of his Majesty’s Person & government & the succession of the Crown in the heirs of the late princess Sophia being Protestants, & for the extinguishing the hopes of the pretended Prince of Wales & his open & secret Abettors,” that is to say the President before the Governor of our

said Province for the time being or by one by him empowered to that service or by the President of our said Council & the Trustees Professors Tutors & other Officers before the President of said College for the time being who is hereby empower'd to administer the same an entry of all which shall be made in the Records of said College And we do for us our heirs & Successors hereby will give & grant full Power & Authority to the President hereafter by us named & to his Successors or in case of his failure to any three or more of the said Trustees to appoint other occasional meetings from time to time of the said seven Trustees or any greater number of them to transact any matter or thing necessary to be done before the next annual meeting and to order notice to the said seven or any greater number of them of the times & places of meeting for the service aforesaid by a letter under his or their hands of the same one month¹ before said meeting Provided always that no standing Rule or order be made or altered for the regulation of said College nor any President or Professor be chosen or displaced nor any other matter or thing transacted or done which shall continue in force after the then next annual meeting of said Trustees as aforesaid And further we do by these Presents for us our Heirs and Successors, create make constitute nominate & appoint our Trusty and well beloved ELEAZER WHELOCK Doctor in Divinity the FOUNDER of said College to be PRESIDENT of said DARTMOUTH COLLEGE and to have the immediate care of Education & government of such Students as shall be admitted into said DARTMOUTH COLLEGE for instruction & education and do will give & grant to him in said Office full power authority & right to nominate appoint constitute & ordain by his last will such suitable & meet person or Persons as he shall chuse to succeed him in the Presidency of said Dartmouth College & the person so appointed by his last Will to continue in Office vested with all the powers priviledges Jurisdiction & authority of a President of said Dartmouth College that is to say so long and untill such appointment by said last Will shall be disapproved by the Trustees of said Dartmouth College And we do also for us our heirs and Successors will give & grant to the said Trustees of said Dartmouth College & to their Successors forever or any seven or more of them convened as aforesaid that in the case of the ceasing or failure of a President by any means whatsoever that the said Trustees do elect nominate & appoint SUCH qualified person as they or the major part of any seven or more of them convened for that purpose as

¹ Amended so that a legal meeting may be held at such time and upon such notice as may be prescribed by the rules of the Trustees.

above directed shall think fit to be PRESIDENT of said DARTMOUTH COLLEGE and to have the care of the Education & government of the Students as aforesaid & in case of the ceasing of a President as aforesaid the Senior Professor or Tutor being one of the Trustees shall exercise the Office of a President untill the Trustees shall make choice of & appoint a President as aforesaid & such Professor or Tutor or any three or more of the Trustees shall immediately appoint a meeting of the body of the Trustees for the purpose aforesaid AND also we do will give and grant to the said Trustees convened as aforesaid that they elect nominate & appoint so many Tutors and Professors to assist the President in the Education & government of the Students belonging thereto as they the said Trustees shall from time to time & at any time think needful & serviceable to the interests of said Dartmouth College And also that the said Trustees or their Successors or the major part of any seven or more of them convened for that purpose as above directed shall at any time displace & discharge from the service of said Dartmouth College any or all such Officers & elect others in their room & stead as before directed And also that the said Trustees or their successors or the major part of any seven of them which shall convene for that purpose as above directed do from time to time as occasion shall require elect constitute & appoint a TREASURER a CLERK an USHER & a Steward for the said DARTMOUTH COLLEGE & appoint to them & each of them their respective businesses & trusts & displace & discharge from the service of said College such Treasurer Clerk Usher or Steward & to elect others in their room & stead which Officers so elected as before directed We do for us our heirs & successors by these Presents constitute & establish in their respective Offices & do give to each & every of them full power & Authority to exercise the same in said Dartmouth College according to the directions & during the pleasure of the said Trustees as fully & freely as any like Officers in any of our Universities Colleges or Seminaries of learning in our Realm of Great Britain lawfully may or ought to do, & also that the said Trustees & their Successors or the major part of any seven or more of them which shall convene for that purpose as is above directed as often as one or more of said Trustees shall die or by removal or otherwise shall according to their judgement become unfit or incapable to serve the interests of said College do as soon as may be after the Death removal or such unfitness or incapacity of such Trustee or Trustees elect & appoint such Trustee or Trustees as shall supply the place of him or them so dying or becoming incapable to serve the

interests of said College & every Trustee so elected & appointed shall by virtue of these presents & such election & appointment be vested with all the Powers & privileges which any of the other Trustees of said College are hereby vested with And we do further Will ordain & direct that from & after the expiration of Two years from the enrollment of these Presents such vacancy or vacancies as may or shall happen by death or otherwise in the aforesaid number of Trustees shall be filled up by election as aforesaid so that when such vacancies shall be filled up unto the complete number of TWELVE Trustees Eight¹ of the aforesaid whole number of the body of Trustees shall be resident and respectable Freeholders of our said Province of New Hampshire & seven of said whole number shall be Laymen And we do further of our special grace certain knowledge and mere motion will give and grant unto the said Trustees of Dartmouth College that they and their Successors or the major part of any seven of them which shall convene for that purpose as is above directed may make & they are hereby fully empowered from time to time fully & lawfully to make and establish such Ordinances Orders & Laws as may tend to the good & wholesome government of the said College & all the Students & the several Officers & Ministers thereof & to the publick benefit of the same not repugnant to the Laws & Statutes of our Realm of GREAT BRITAIN or of this our Province of NEW HAMPSHIRE and not excluding any Person of any religious denomination whatsoever from free & equal liberty & advantage of Education or from any of the liberties and privileges or immunities of the said College on account of his or their speculative sentiments in Religion, & of his or their being of a religious profession different from the said Trustees of the said Dartmouth College And such Ordinances orders & Laws which shall as aforesaid be made We do by these presents for us our heirs & Successors ratify allow of, & confirm as good & effectual to oblige & bind all the Students & the several Officers & Ministers of the said College And we do hereby authorize & empower the said Trustees of Dartmouth College & the President Tutors & Professors by them elected & appointed as aforesaid to put such ordinances laws and orders in execution to all proper intents and purposes And we do further of our special grace certain knowledge & mere motion Will give & grant unto the said Trustees of said Dartmouth College for the encouragement of Learning and animating the Students of said College to diligence & industry & a laudable progress in Literature that they & their

¹ Subsequently amended so as to read *seven*.

Successors or the major part of any seven or more of them convened for that purpose as above directed do by the President of said College for the time being or any other deputed by them give & grant any such degree or degrees to any of the Students of the said College or any others by them thought worthy thereof as are usually granted in either of the Universities or any other College in our Realm of Great Britain & that they sign & seal Diplomas or certificates of such Graduations to be kept by the Graduates as perpetual memorials & testimonials thereof. AND we do further of our special grace certain knowledge & mere motion for us our heirs & Successors by these Presents give & grant unto the Trustees of said Dartmouth College & to their Successors that they & their Successors shall have a common SEAL under which they may pass all Diplomas or Certificates of degrees & all other affairs & business of & concerning the said College which shall be engraven in such a form and with such an inscription as shall be devised by the said Trustees for the time being or by the major part of any seven or more of them convened for the service of the said College as is above directed. And we do further for us our heirs & Successors give and grant unto the said Trustees of the said Dartmouth College & their Successors or to the major part of any seven or more of them convened for the service of the said College full power & Authority from time to time to nominate & appoint all other Officers & Ministers which they shall think convenient & necessary for the service of the said College not herein particularly named or mention'd which Officers & Ministers we do hereby empower to execute their Offices & Trusts as fully & freely as any of the Officers & Ministers in our Universities or Colleges in our REALM of GREAT BRITAIN lawfully may or ought to do. AND further that the generous Contributors to the support of this design of spreading the knowledge of the only true God and Saviour among the American Savages may from time to time be satisfied that their liberalities are faithfully disposed of in the best manner for that purpose & that others may in future time be encouraged in the exercise of the like liberality for promoting the same pious design it shall be the duty of the President of the said Dartmouth College & of his Successors annually or as often as he shall be thereunto desired or required to transmit to the Right honorable, honorable & worthy Gentlemen of the Trust in England before mentioned a faithful account of the improvement & disbursements of the several Sums he shall receive from the Donations & bequests made in England through the hands of said Trustees & also advise them of the general plans

laid and prospects exhibited as well as a faithful account of all remarkable occurrences in order if they shall think expedient that they may be published And this to continue so long as they shall perpetuate their board of Trust & there shall be any of the Indian Natives remaining to be proper Objects of that Charity AND lastly our express Will & pleasure is and we do by these presents for us our heirs and Successors give & grant unto the said Trustees of Dartmouth College & to their Successors forever that these our Letters Patent or the enrollment thereof in the SECRETARY'S Office of our Province of New Hampshire aforesaid shall be good & effectual in the Law to all intents & purposes against us our heirs and Successors without any other License Grant or Confirmation from us our heirs & successors hereafter by the said Trustees to be had & obtained notwithstanding the not writing or misrecital not naming or misnaming the aforesaid Offices Franchises Priviledges Immunities or other the Premises or any of them and notwithstanding a writ of Ad quod Damnum hath not issued forth to enquire of the Premises or any of them before the ensealing hereof any Statute Act Ordinance or Provision or any other matter or thing to the contrary notwithstanding TO HAVE AND TO HOLD ALL & singular the Privileges Advantages Liberties Immunities and all other the Premises herein & hereby granted & given or which are meant mentioned or intended to be herein & hereby given and granted unto them the said TRUSTEES of DARTMOUTH COLLEGE and to their Successors forever. IN TESTIMONY whereof We have caused these our Letters to be made Patent and the publick Seal of our said Province of NEW HAMPSHIRE to be hereunto affixed WITNESS our Trusty and well beloved JOHN WENTWORTH Esquire Governor and Commander in Chief in and over our said Province &c. this THIRTEENTH day of December in the Tenth year of our Reign and in the year of our Lord one thousand seven hundred and Sixty nine.

By his Excellency's Command }
with advice of Council }

THEODORE ATKINSON, Sec'y

Province of New Hampshire Decemb^r 18th 1769.

Recorded in the book of Charters

Lib: 4^o Fol. 22 to 23 both inclusive.

Per

THEODORE ATKINSON, Sec'y

JOHN WENTWORTH.

HISTORICAL NOTE

DARTMOUTH COLLEGE is the outgrowth of a school which the Reverend Eleazer Wheelock opened in his home at Lebanon, Conn., December 18, 1754, for the Christian education of Indian youth. The school was known as Moor's Indian Charity School, so named from Joshua Moor, who contributed a house and two acres of land.

Funds for the maintenance of the school were received from various sources, — from private individuals, from the General Courts of Massachusetts Bay and of New Hampshire, and from Great Britain, where the enterprise had awakened the deepest interest. From the latter source an endowment was secured, chiefly through the efforts of Samson Occom, the Indian preacher, one of Dr. Wheelock's students, who was commissioned to make a tour of England and Scotland for this purpose in 1765. The sum of ten thousand pounds was thus raised, and committed to the charge of a board of trustees with the Earl of Dartmouth at its head. As the result of this endowment it was determined by Dr. Wheelock to enlarge the purpose of the school especially to reach "a greater proportion of English youth," and to change its location. Various proposals for a site were made, but after careful investigation the site chosen was the township of Hanover, in the region of Cowas or Coös, in the province of New Hampshire. Apart from the nearness of this site to the Canadian Indians, the determining reason for the choice seems to have been the attractiveness of the location, and the fact that it was the natural center of "more than two hundred towns, chartered, settled, or about to be settled." Removal to the Province of New Hampshire also gave the assurance of a charter, which it had thus far been difficult to obtain.

The draft of the charter prepared by Dr. Wheelock received important modifications from the Governor of the Province, John Wentworth. In particular he rejected the suggestion of a coördinate board of trustees in Great Britain; he gave to the college the name of Lord Dartmouth, its most active patron in Great Britain, although Wheelock had proposed to the Governor to call it by the name of Wentworth; and instead of incorporating it as a "school" or "academy," he

adopted a hint from Wheelock's postscript and made it a "college." The first board of trustees consisted of the Governor with three of his council, the speaker of the New Hampshire House of Representatives, one member of the Connecticut Colonial government, and six Connecticut clergymen selected by Dr. Wheelock.

Dr. Wheelock was elected president of the college, with Mr. Bezael Woodward, a graduate of Yale in 1764, as his associate. The first class of four students was graduated in 1771, the Commencement being attended by the Governor of the Province of New Hampshire and a company of gentlemen from Portsmouth, who made their way in part through almost trackless forests.

Two events in the early history of the college materially affected its character and growth. First, the gradual withdrawal of the support of its patrons in Great Britain, whose interest lay chiefly in the education of Indians; second, the lawsuit between the college and the state of New Hampshire for the control of the college, which resulted in a final decision by the Supreme Court of the United States in favor of the Trustees of Dartmouth College. The decision in "The Dartmouth College Case" was rendered in February, 1819. Since the reestablishment of the college by this decision, its history has followed the general course of educational progress in New England.

Other institutions have from time to time been associated with or incorporated into the college.

Moor's Indian Charity School was made an independent institution when the college was founded. The school was maintained as late as 1849. It still has a legal existence with the title — "The President of Moor's Charity School." The trustees are the same in person with those of the college, though forming a separate corporation.

The Dartmouth Medical School dates from the establishment in 1798 of a professorship of medicine in the college, first filled by Dr. Nathan Smith, who was instrumental in its establishment. The school is under the general control of the Trustees of Dartmouth College, by which body degrees are conferred, but the management of its affairs is committed to the Medical Faculty. Associated with the Medical College is the Mary Hitchcock Hospital (1893), the memorial gift of Hiram Hitchcock, Esq., of Hanover.

The Chandler School of Science and the Arts, established in 1851 by a resolution of the trustees, in acceptance of a sum bequeathed to them in trust by Abiel Chandler, Esq., "for the establishment and support of a permanent department or school of instruction in the col-

lege, in the practical and useful arts of life," was more formally incorporated into the College by the joint action of the Trustees of the College and the Visitors of the Chandler School in 1893, and is now known as the Chandler Scientific Course in the College, leading to the degree of B.S.

The Thayer School of Civil Engineering, established in 1867 by the bequest of General Sylvanus Thayer, Class of 1807, is essentially a graduate school, covering a course of two years, and conferring the degree of Civil Engineer. The funds of the School are in charge of the Trustees of the College; otherwise its affairs are managed by a board of overseers, which is a close corporation.

The Amos Tuck School of Administration and Finance, established in 1900 by Mr. Edward Tuck, Class of 1862, as a memorial to his father, Honorable Amos Tuck, Class of 1835, a Trustee of the College, 1857 to 1866, is also a graduate school covering a course of two years. It is the object of the School to train college graduates who desire to engage in affairs rather than to enter the professions. The School is administered by the Trustees of the College.

The presidency of the college has been held as follows:

Eleazer Wheelock, 1769-1779.	Bennett Tyler, 1821-1828.
John Wheelock, 1779-1815.	Nathan Lord, 1828-1863.
Francis Brown, 1815-1820.	Asa Dodge Smith, 1863-1877.
Daniel Dana, 1820-1821.	Samuel Colcord Bartlett, 1877-1892.
William Jewett Tucker, 1893-.	

REGISTER

TRUSTEES OF DARTMOUTH COLLEGE

AND OF MOOR'S CHARITY SCHOOL

WILLIAM JEWETT TUCKER, D.D., LL.D., PRESIDENT.
HIS EXCELLENCY FRANK W. ROLLINS, A.M. (*ex officio*),
Concord, N. H.
HENRY FAIRBANKS, PH.D. *St. Johnsbury, Vt.*
WILLIAM M. CHASE, LL.D. *Concord, N. H.*
JAMES B. RICHARDSON, LL.D. *Boston, Mass.*
CYRUS RICHARDSON, D.D. *Nashua, N. H.*
FRANK S. STREETER, A.B. *Concord, N. H.*
CHARLES F. MATHEWSON, LL.B. . . . *New York, N. Y.*
EDWARD D. REDINGTON, A.M. *Chicago, Ill.*
BENJAMIN A. KIMBALL, B.S. *Concord, N. H.*
CECIL F. P. BANCROFT, PH.D., LL.D. . *Andover, Mass.*

TREASURER

CHARLES P. CHASE, A.M. *Hanover, N. H.*

EX OFFICIO TRUSTEES OF THE COLLEGE IN RE- LATION TO FUNDS GIVEN BY THE STATE OF NEW HAMPSHIRE

COUNCILLORS

HON. SUMNER WALLACE *Rochester*
HON. STEPHEN H. GALE *Exeter*
HON. GEORGE F. HAMMOND *Nashua*
HON. HARRY M. CHENEY *Lebanon*
HON. HENRY F. GREEN *Littleton*

THE PRESIDENT OF THE SENATE

HON. CHESTER B. JORDAN *Lancaster*

THE SPEAKER OF THE HOUSE OF REPRESENTATIVES

HON. FRANK D. CURRIER *Canaan*

THE CHIEF JUSTICE OF THE SUPREME COURT

ISAAC N. BLODGETT, A.M. *Franklin*

STANDING COMMITTEES OF THE TRUSTEES FOR
THE YEAR 1899-1900

COMMITTEE ON FINANCE,

Messrs. J. B. Richardson, Kimball, Mathewson, Chase.

ON INSTRUCTION,

Messrs. Bancroft, Fairbanks, Chase, C. Richardson.

ON EQUIPMENT,

Messrs. Fairbanks, Redington, —

ON BUILDINGS AND IMPROVEMENTS,

Messrs. Streeter, J. B. Richardson, Kimball, Mathewson.

ON DEGREES,

Messrs. Bancroft, C. Richardson, —

ON RELATION OF COLLEGE TO STATE,

Messrs. Kimball, C. Richardson, Streeter.

ON RELATION OF COLLEGE TO ALUMNI,

Messrs. J. B. Richardson, Fairbanks, Redington.

ON LEGAL MATTERS,

Messrs. Chase, J. B. Richardson, Streeter.

The President of the College is a member *ex officio* of the Committee on Finance, on Instruction, on Equipment, on Buildings and Improvements, and on Degrees.

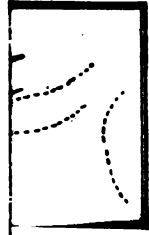
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CIVIL ENGINEERING

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CATALOGUE
OF
DARTMOUTH COLLEGE
TOGETHER WITH THE
MEDICAL SCHOOL
AND THE
THAYER SCHOOL OF CIVIL ENGINEERING
FOR THE YEAR
1899-1900

HANOVER, N. H.
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1899

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HOWARD NELSON KINGSFORD, M.D., *Instructor in Pathology and Bacteriology.*
19 College St.

HENRY BARRETT HUNTINGTON, A.B., *Instructor in English.*
19 S. Main St.

WILLIAM KILBORNE STEWART, A.M., *Instructor in German.*
The Wheelock.

JOSEPH STANLEY WILL, A.B., *Instructor in French.*
The Wheelock.

ETTA MATTOCKS NEWELL, *Assistant Librarian.*
The Wheelock.

ALEXANDER ANDERSON MCKENZIE, B.S., *Superintendent of Buildings.*
44 College St.

OFFICE HOURS

THE PRESIDENT — Administration Building — 10.30 to 12 A.M. daily.

THE TREASURER — Bank Building — 1.30 to 2.30 P.M. daily.

THE DEAN OF THE COLLEGE — Administration Building — 9 to 10.30 A.M. daily, and 2 to 3.30 P.M., except Wednesdays and Saturdays.

THE DEAN OF THE MEDICAL SCHOOL — Office at 9 School St. — 1.30 to 2.30 P.M. daily.

THE SECRETARY OF THE MEDICAL SCHOOL — Office at 13 E. Wheelock St. — 8 to 8.30 A.M., 1.30 to 2, and 7 to 7.30 P.M., daily.

THE DIRECTOR OF THE THAYER SCHOOL — Office at Thayer Building — 9 to 10 A.M. daily.

THE SECRETARY OF THE TUCK SCHOOL — Office at Hubbard House — 9 to 10 A.M. daily.

THE SUPERINTENDENT OF BUILDINGS — Administration Building — 8 to 8.30 A.M., 11.30 to 12, and 5.30 to 6 P.M.

LIBRARY HOURS — 9 A.M. to 12.30 P.M. and 1.30 to 5 P.M.

Reading and Reference Rooms are open from 8 A.M. to 10 P.M., week-days, and Reading Rooms on Sundays from 1.30 to 5.30 P.M.

BOARD OF PREACHERS, 1899-1900

SAMUEL P. LEEDS, D.D., *Pastor of the College Church.*

THE PRESIDENT OF THE COLLEGE.

FRANCIS BROWN, D.D., *Union Theological Seminary.*
New York, N. Y.

WILLIAM DEWITT HYDE, D.D., *Bowdoin College.*
Brunswick, Me.

GEORGE A. GORDON, D.D., *Old South Church.*
Boston, Mass.

JOHN W. CHURCHILL, D.D., *Theological Seminary.*
Andover, Mass.

FRANCIS E. CLARK, D.D.
Boston, Mass.

GEORGE HODGES, D.D., *Episcopal Seminary.*
Cambridge, Mass.

WILLIAM H. DAVIS, D.D., *Eliot Church.*
Newton, Mass.

HARRY P. DEWEY, D.D., *South Church.*
Concord, N. H.

THOMAS C. HALL, D.D., *Union Theological Seminary.*
New York, N. Y.

GEORGE F. MOORE, D.D., *Theological Seminary.*
Andover, Mass.

The term of service of each Preacher is from two to four Sundays, with the exception of the Pastor of the College Church, whose term is six Sundays.

The Preacher of the day is at Bartlett Hall on Sunday afternoon at four o'clock for personal interviews with the students.

STUDENTS

GRADUATE SCHOLARS

Bacon, Arthur Avery	Hanover, N. H.	Wilder Hall
B.A. 1897. Physics: <i>Assistant in Laboratory.</i>		
Rodgers, Bradley Carleton	Newtown, Conn.	19 N. Main St.
B.A. 1898. History and Political Science.		
Tootell, Albert Ballard	Salem, N. H.	23 N. Main St.
B.A. 1899. Sociology.		

GRADUATE STUDENTS

Evans, George Hill	Conway, N. H.	19 N. Main St.
B.L. 1899. Modern Language.		
Joy, Clarence Lovell	Brockton, Mass.	Observatory.
B.A. 1899. Sociology.		

UNDERGRADUATES

c denotes Classical Course ; Degree of B.A.
 L denotes Latin-Scientific Course ; Degree of B.L.
 s denotes Chandler Scientific Course ; Degree of B.S.

SENIORS

Name	Course	Residence	Room
Arundel, Daniel Alphonsus	s	<i>Lawrence, Mass.</i>	S. H. 23
Ash, John William	s	<i>Manchester, N. H.</i>	1 S. Park St.
Atwood, Fred Edwin	s	<i>Chelsea, Vt.</i>	Rn. H. 14
Balkam, Gilbert	s	<i>Hyde Park, Mass.</i>	Rd. H. 17
Banning, Samuel Walker	c	<i>Chicago, Ill.</i>	C. H. 2
Barker, Edson Moulton	L	<i>Plymouth, N. H.</i>	S. H. 12

STUDENTS

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Name	Course	Residence	Room
Barrows, Nathaniel Haven	s	<i>Haverhill, Mass.</i>	C. H. 14
Bigelow, Edward Bridge	c	<i>Grafton, Mass.</i>	K. K. K. House
Blair, Walter	c	<i>Boston, Mass.</i>	C. G. House
Boyle, Charles John	L	<i>Worcester, Mass.</i>	32 N. Main St.
Bradley, Francis James	c	<i>North Easton, Mass.</i>	S. H. 19
Brooks, Robert Hartley	c	<i>Claremont, N. H.</i>	C. G. House
Brown, Edward Theodore	s	<i>Windsor, Vt.</i>	D. H. 8
Buck, Burton Winthrop	L	<i>Manchester, N. H.</i>	20 N. Main St.
Butterfield, Clarence Egbert	L	<i>Perkinsville, Vt.</i>	D. H. 3
Carrigan, Michael Thornton	c	<i>Worcester, Mass.</i>	25 N. Main St.
Cate, Edgar Randal	s	<i>Haverhill, Mass.</i>	32 N. Main St.
Chesley, Alfred Ervan	c	<i>North Andover, Mass.</i>	T. H. 7a
Clark, William Edward, Jr.	L	<i>Charlestown, N. H.</i>	D. H. 7
Colbert, William Joseph	c	<i>Danvers, Mass.</i>	W. H. 8
Gondit, Dayton Lord	s	<i>St. Paul, Minn.</i>	37 College St.
Cook, William Henry	L	<i>Chelsea, Mass.</i>	Rn. H. 1
Corson, Freeman	s	<i>Rochester, N. H.</i>	S. H. 25
Cristy, Horace Wakefield	c	<i>Worcester, Mass.</i>	Rn. H. 6
Davis, Harry Bertram	L	<i>North Easton, Mass.</i>	C. H. 14
Dearborn, Edmond Gerrish	c	<i>Milford, N. H.</i>	The Wheelock
Dickinson, William Clinton	c	<i>Lisbon, N. H.</i>	T. H. 1
Dodd, Loring Holmes	c	<i>Brooklyn, N. Y.</i>	27 Allen St.
Dolloff, Charles Hall	L	<i>Everett, Mass.</i>	T. H. 16
Downing, Arthur Taylor	c	<i>Hanover, N. H.</i>	19 Allen St.
Drew, Charles Allen	s	<i>Jamaica Plain, Mass.</i>	Rn. H. 14
Dunlap, Roger Allen	c	<i>East Concord, N. H.</i>	W. H. 1
Dutton, Julius Maltby	c	<i>Newport, Vt.</i>	K. K. K. House
Eaton, Roland Grosvenor	L	<i>Danvers, Mass.</i>	Rn. H. 14
Emerson, Natt Waldo	c	<i>Candia, N. H.</i>	The Wheelock
Fairfield, Arthur Perry	c	<i>Lyme, N. H.</i>	19 Allen St.
Fletcher, Walter Holden	c	<i>Concord, N. H.</i>	W. H. 17
Foss, Calvin Whitten	L	<i>Pittsfield, N. H.</i>	6 College St.
Foster, Oliver Wallace	c	<i>Milford, N. H.</i>	S. H. 1
Fowler, Alvah Tennant	s	<i>Pembroke, N. H.</i>	Rd. H. 3
Fowler, Josiah Minot	c	<i>Jamaica Plain, Mass.</i>	13 W. Wheelock St.
Gafforio, Pippo Joseph	L	<i>Bradford, N. H.</i>	Rood House 18
Gibson, Jasper Manlius	s	<i>Clinton, Mass.</i>	6 W. South St.
Gilson, Henry Brockway	c	<i>Chicago, Ill.</i>	C. H. 1
Goodhue, Everett Walton	c	<i>Westminster, West, Vt.</i>	9 College St.
Guild, Frank Harvey	c	<i>Claremont, N. H.</i>	34 N. Main St.
Hadley, Augustus Andrew	c	<i>Marion, Mass.</i>	S. H. 14
Hadlock, Fred Herbert	c	<i>Piermont, N. H.</i>	6 College St.

Name	Course	Residence	Room
Ham, Guy Andrews	c	<i>Boston, Mass.</i>	C. G. House
Hastings, Harold Ripley	c	<i>Nashua, N. H.</i>	T. H. 17
Hatch, Royal	c	<i>Strafford, Vt.</i>	T. H. 17
Hayden, Arthur Bowers	c	<i>Claremont, N. H.</i>	T. H. 2
Hildreth, George Kelsea	c	<i>Bethlehem, N. H.</i>	Rd. H. 15
Holland, Harold May	c	<i>Galesburg, Ill.</i>	19 S. Main St.
Hoskins, Neal Luther	c	<i>Lisbon, N. H.</i>	The Wheelock
Howe, Frank Martin	c	<i>Weston, Vt.</i>	17 S. Main St.
Hoyt, Charles Hamilton	s	<i>Washington, N. H.</i>	The Wheelock
Hutchins, Harry	c	<i>Lancaster, N. H.</i>	Rd. H. 13
Hutchison, James Burnie	s	<i>Chicago, Ill.</i>	18 S. Main St.
Jackson, Robert	c	<i>Litt'eton, N. H.</i>	Rn. H. 23
Jenkins, Frederick Warren	c	<i>Bradford, Mass.</i>	Rn. H. 18
Jenkins, Harry Milo	s	<i>Bradford, Vt.</i>	9 College St.
Jennings, Fred Everett	c	<i>Everett, Mass.</i>	C. H. 11
Jonakowski, Edmund Joseph	c	<i>Webster, Mass.</i>	Rd. H. 15
Keyes, Homer Eaton	L	<i>Brooklyn, N. Y.</i>	C. G. House
Kimball, Arthur Stevens	c	<i>Battle Creek, Mich.</i>	11 E. Wheelock St.
Lambert, Avery Eldorus	† s	<i>Thetford, Vt.</i>	Thetford, Vt.
Leonard, Richard	c	<i>Rochester, N. H.</i>	8 College St.
Lewis, Franklin Crocker	c	<i>Centerville, Mass.</i>	W. H. 16
Lewis, Rutherford Thurman			
Lamar	L	<i>Everett, Mass.</i>	S. H. 12
Long, John Hathaway	c	<i>Claremont, N. H.</i>	34 N. Main St.
McDavitt, Clarence Godfrey	s	<i>Pompton Lakes, N. J.</i>	Rn. H. 8
Mahoney, Cornelius John	c	<i>North Andover, Mass.</i>	W. H. 5
Manion, Joseph William	c	<i>Weymouth, Mass.</i>	W. H. 8
Marshall, Harry Ignatius	c	<i>Nashua, N. H.</i>	9 College St.
Martin, Arthur	c	<i>Springfield, O.</i>	T. H. 8
Mathes, John Ralph	s	<i>Dover, N. H.</i>	Rn. H. 23
Merrill, George Frye	c	<i>Portland, Me.</i>	C. G. House
Merry, Louis Augustus	L	<i>Somerville, Mass.</i>	S. H. 9
Metcalf, Frank Arthur	c	<i>Acworth, N. H.</i>	A. H. 5
Miller, Clifton Thompson	L	<i>South Hadley Falls, Mass.</i>	Rd. H. 7
Morse, Nathaniel Niles	L	<i>Brooklyn, N. Y.</i>	C. H. 2
Moulton, Horace Freeman	c	<i>Randolph, Vt.</i>	S. H. 16
Murray, Lindley Zechariah	c	<i>Brooklyn, N. Y.</i>	C. G. House
Norris, Arthur Henry	s	<i>Hyde Park, Mass.</i>	T. H. 7b
Orcutt, Harold William	c	<i>Wollaston, Mass.</i>	Rn. H. 5
O'Sullivan, William Daniel	L	<i>Lawrence, Mass.</i>	The Wheelock
Paddock, Clarence Erwin	s	<i>East Berlin, Conn.</i>	W. H. 16

† Special course.

STUDENTS

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Name	Course	Residence	Room
Phillips, Julian Wallingford	L	<i>Framingham, Mass.</i>	C. H. 1
Prescott, Benjamin Franklin	s	<i>Epping, N. H.</i>	8 Lebanon St.
Proctor, Charles Albert	c	<i>Hanover, N. H.</i>	10 N. Main St.
Prouty, Leonard Albert	L	<i>West Brookfield, Mass.</i>	K. K. K. House
Rankin, Walter Poland	c	<i>Boston, Mass.</i>	C. G. House
Redington, John Chase	c	<i>Evanston, Ill.</i>	Rn. H. 8
Redington, Paul Goodwin	c	<i>Evanston, Ill.</i>	The Wheelock
Rich, Charles Augustus	s	<i>Danvers, Mass.</i>	37 N. Main St.
Rich, Dwight Bradlee	L	<i>Roxbury, Mass.</i>	C. G. House
Richardson, Harry Webb	c	<i>Lisbon, N. H.</i>	T. H. 1
Richardson, Leon Burr	L	<i>Lebanon, N. H.</i>	A. H. 5
Risley, Wilfred Cary	s	<i>Piermont, N. H.</i>	The Wheelock
Roberts, Arthur Stanley	c	<i>Andover, Mass.</i>	Rn. H. 1
Rogers, Charles Warner	s	<i>Alstead, N. H.</i>	C. G. House
Salinger, Victor Randolph	L	<i>Rochester, N. H.</i>	C. G. House
Sampson, Harry LeBaron	c	<i>Middleboro, Mass.</i>	S. H. 5
Sanborn, Channing Tewksbury	c	<i>Concord, N. H.</i>	S. H. 1
Sargent, Charles	s	<i>Walpole, N. H.</i>	A. H. 4
Sawyer, LeRoy Robinson	c	<i>Orange, Mass.</i>	Rn. H. 2
Sears, Frank Dana	s	<i>Hyde Park, Mass.</i>	T. H. 7b
Sears, Horace Holmes	s	<i>Hyde Park, Mass.</i>	Thayer Building
Sprague, Embert Hiram	s	<i>Haverhill, Mass.</i>	6 W. South St.
Standish, Vaughan Ellis	s	<i>Concord, N. H.</i>	C. H. 7
Stevens, Sidney Francis	s	<i>Somersworth, N. H.</i>	S. H. 25
Stickney, William	L	<i>Bethel, Vt.</i>	C. H. 23
Storrs, Edward Payson, Jr.	s	<i>Hanover, N. H.</i>	42 S. Main St.
Teague, Henry Nelson	c	<i>Gloucester, Mass.</i>	Rn. H. 22
Tibbetts, Howard Murray	c	<i>Calais, Me.</i>	The Wheelock
Tirrell, Cornelius Urban	L	<i>South Weymouth, Mass.</i>	Rd. H. 7
Tong, George William	c	<i>Brooklyn, N. Y.</i>	C. G. House
Trull, Herbert Lewis	s	<i>North Tewksbury, Mass.</i>	24 Lebanon St.
Tuttle, Donald Dickey	c	<i>Milford, N. H.</i>	23 N. Main St.
Tuttle, Leonard Wason	c	<i>Milford, N. H.</i>	23 N. Main St.
Virgin, Arthur Russell	s	<i>Boston, Mass.</i>	Hd. H. 3
Wallace, Arthur Lowell	c	<i>Nashua, N. H.</i>	9 College St.
Warden, John Bachop	s	<i>Hanover, N. H.</i>	8 Lebanon St.
Wentworth, Joseph	L	<i>Sandwich, N. H.</i>	C. H. 22
Weston, Henry Reuben	c	<i>Windsor, Vt.</i>	32 N. Main St.
Wood, John Hutchinson	s	<i>Norwich, Vt.</i>	A. Δ. Φ. House
Woodman, James Brown	c	<i>West Lebanon, N. H.</i>	D. H. 7

JUNIORS

Name	Course	Residence	Room
Andrews, John Gilbert	s	<i>Newton Centre, Mass.</i>	Hd. H. 4
Barnard, James Arthur	s	<i>Nashua, N. H.</i>	C. H. 8
Bennett, Ralph Culver	L	<i>Evanston, Ill.</i>	44. College St.
Berry, John Edward	c	<i>Saco, Me.</i>	C. H. 11
Bishop, Eliot	c	<i>Brooklyn, N. Y.</i>	Hd. H. 4
Bond, Bernard Quincy	L	<i>Littleton, N. H.</i>	Hd. H. 4
Brown, Charles Ellsworth	c	<i>Middleboro, Mass.</i>	B. H. 3
Brown, Warren Raymond	s	<i>Centre Harbor, N. H.</i>	Wallace House
Bryant, Clarence Edmund	L	<i>Hyde Park, Mass.</i>	Rd. H. 5
Buck, Arthur Ela	c	<i>Manchester, N. H.</i>	20 N. Main St.
Burke, Wilfrid Israel	c	<i>Kennebunk, Me.</i>	14 W. Wheelock St.
Burleigh, David Paul	L	<i>Plymouth, N. H.</i>	T. H. 24
Butler, Walter Franklin	s	<i>Windsor, Vt.</i>	T. H. 24
Butterfield, Claude Albert	c	<i>Perkinsville, Vt.</i>	D. H. 3
Calderwood, Edward Swazey	c	<i>Boston, Mass.</i>	25 S. Main St.
Cate, Harland Earle	c	<i>Haverhill, Mass.</i>	34 N. Main St.
Chase, Charles Richard	c	<i>Rochester, N. H.</i>	48 S. Main St.
Cheever, William Whittle	s	<i>Nashua, N. H.</i>	S. H. 6
Clark, Eugene Francis	c	<i>Auburndale, Mass.</i>	Rd. H. 10
Clark, Harry Sylvester	s	<i>Randolph, Vt.</i>	T. H. 15
Clark, James Stanford	c	<i>West Brattleboro, Vt.</i>	B. H. 3
Cobb, Gardner Nathan	c	<i>Stratford, Vt.</i>	23 S. Main St.
Colby, Joseph Rutherford	c	<i>Newport, Vt.</i>	3 Pleasant St.
Cox, Channing Harris	c	<i>Concord, N. H.</i>	K. K. K. House
Crone, Louis Leonard	L	<i>Lexington, Mass.</i>	S. H. 22
Cross, Ernest Samuel	c	<i>Exeter, N. H.</i>	Rn. H. 3
Crowell, John William	s	<i>Salem, N. H.</i>	W. H. 21
Crowell, Mortimer Leggett	s	<i>Cleveland, O.</i>	A. A. Φ. House
Crowell, Warner Rogers	s	<i>Everett, Mass.</i>	D. H. 1
Cudworth, Frank Ezekiel	s	<i>Littleton, N. H.</i>	T. H. 15
Curtis, Harlan Fuller	L	<i>Killingworth, Conn.</i>	D. H. 11
Curtis, Walter Hibbard	†s	<i>Killingworth, Conn.</i>	D. H. 11
Davis, Waldo Trevor	c	<i>Clinton, Mass.</i>	T. H. 3
Dearborn, Selwyn Kenson	c	<i>Bristol, N. H.</i>	5 W. South St.
Denison, Guy Earls court	c	<i>Pittsfield, N. H.</i>	T. H. 23
Doane, Royal Belden	s	<i>Beckley, Conn.</i>	W. H. 1
Dow, Eugene Madison	c	<i>Woodsville, N. H.</i>	9 College St.
Dowd, John Edwin	c	<i>Nashua, N. H.</i>	D. H. 12

† Special course.

STUDENTS

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Name	Course	Residence	Room
Dunnington, Herbert Earl	L	Manchester, N. H.	S. H. 8
Dunsmoor, Ralph Wales	s	Northfield, Vt.	10 College St.
Eckstorm, Paul Frederick Theodore	L	Chicago, Ill.	48 S. Main St.
Edwards, William Benjamin	† s	Everett, Mass.	T. H. 16
French, George Franklin	c	Park Hill, N. H.	K. K. K. House
French, Irving Joseph	L	Park Hill, N. H.	K. K. K. House
Gentleman, Fred William	c	Portsmouth, N. H.	T. H. 8
George, John Harvey	s	Barre, Vt.	10 College St.
Gilmore, Harry Bassett	c	Haverhill, Mass.	C. H. 18
Gooch, Verson Woodman	s	Wakefield, Mass.	S. H. 22
Grant, Perley Cummings	c	Auburn, N. H.	48 S. Main St.
Gum, Andrew Thompson	† s	Frankford, Del.	1 Maple St.
Hall, Howard Warren	c	Shelburne Falls, Mass.	The Wheelock
Halliday, Frank Wade	c	Solon, Me.	14 W. Wheelock St.
Hallman, Thomas Hart Benton	c	Royersford, Pa.	3 Pleasant St.
Hancock, George Leverett	s	Franklin Falls, N. H.	Rn. H. 16
Hardy, Lawrence Parker	c	So. Framingham, Mass.	14 W. Wheelock St.
Hartigan, Augustus Fisher	† L	Chicago, Ill.	23 N. Main St.
Haskell, Frederick White	s	Wakefield, Mass.	A. A. ♣. House
Higgins, James Francis	L	Barre, Vt.	10 College St.
Hildreth, Charles Lewis	c	Westford, Mass.	T. H. 9
Hill, Frederick Lewis	c	Brockton, Mass.	S. H. 18
Hinckley, Albert Lucien	c	Osterville, Mass.	A. H. 4
Hopkins, Ernest Martin	c	North Uxbridge, Mass.	10 N. Main St.
Hovey, Herbert Washburne	L	St. Johnsbury, Vt.	48 S. Main St.
Howard, William Earle	L	Hyde Park, Mass.	C. H. 7
Howe, James Arthur	s	Barre, Vt.	10 College St.
Hunter, Edgar Hayes	s	Medford, Mass.	Rd. H. 9
Jones, George Milton	L	Chicago, Ill.	10 Maple St.
Kimball, Charles Warren, Jr.	c	Penn Yan, N. Y.	C. H. 17
Kimball, James Howland	c	Hingham Centre, Mass.	Rn. H. 5
Lane, Adolph Buch	s	South Barre, Vt.	10 College St.
Leach, Eugene William	s	Franklin, N. H.	C. H. 19
Leavens, Robert French	c	Boston, Mass.	K. K. K. House
Lowe, Frank William	c	Boston, Mass.	S. H. 14
Lunt, Henry	c	New York, N. Y.	11 E. Wheelock St.
Lyon, Walter Hastings	c	Ludlow, Mass.	5 W. South St.
McCarten, James Edward	L	Lancaster, N. H.	Rd. H. 13
McIntyre, James Bradford	s	Randolph, Vt.	S. H. 16
McMillan, Edward Neil	s	Boston, Mass.	Observatory

† Special course.

Name	Course	Residence	Room
Maguire, Eugene Leo	c	<i>Somerville, Mass.</i>	25 N. Main St.
Marsh, Francis Beal	s	<i>Brooklyn, N. Y.</i>	E. H. 13
Marshall, Andrew	c	<i>Boston, Mass.</i>	K. K. K. House
Mason, Thomas Augustus	c	<i>Northfield, Mass.</i>	S. H. 2
Merrill, Leon Orlando	c	<i>Lower Gilmanton, N. H.</i>	Rood House 17
Newhall, Frank Warren	s	<i>Danvers, Mass.</i>	W. H. 21
O'Leary, Laurence James	L	<i>Lawrence, Mass.</i>	W. H. 7
O'Malley, Michael Henry	c	<i>Clinton, Mass.</i>	18 S. Main St.
Orcutt, Julian DeWitt	c	<i>Wollaston, Mass.</i>	Rn. H. 18
Owen, Carl Maynard	c	<i>Jacksonville, Ill.</i>	2 Elm St.
Page, Donald Taylor	c	<i>Manchester, N. H.</i>	T. H. 24
Pattee, Richard	† L	<i>New Hampton, N. H.</i>	14 Maple St.
Perkins, Locke McIndoe	s	<i>Windsor, Vt.</i>	S. H. 11
Phelps, Clarence Lewis	c	<i>Quincy, Ill.</i>	Rd. H. 5
Pingree, George Elmer	c	<i>Georgetown, Mass.</i>	A. A. ♀. House
Piper, George Irving	c	<i>North Parsonsfield, Me.</i>	27 Allen St.
Porter, Carlton Adelbert, Jr.	s	<i>Auburn, N. Y.</i>	C. H. 16
Prescott, Charles Irville	L	<i>Meredith, N. H.</i>	Rn. H. 24
Prescott, Philip Reginald	c	<i>Westford, Mass.</i>	8 College St.
Qua, Stanley Elroy	c	<i>Lowell, Mass.</i>	C. H. 10
Raphael, Joseph	c	<i>Brooklyn, N. Y.</i>	C. H. 4
Redman, Arthur Prescott	L	<i>Lexington, Mass.</i>	C. H. 16
Remsen, Thomas Richard	s	<i>Brooklyn, N. Y.</i>	C. H. 4
Ricker, Guy Clifton	s	<i>Acton, Me.</i>	23 N. Main St.
Robinson, George Edwin	c	<i>Brookline, Mass.</i>	8 W. South St.
Rollins, Daniel Ashton	c	<i>Washington, D. C.</i>	S. H. 20
Rowe, Newell Dean	L	<i>East Peacham, Vt.</i>	W. Lebanon Road
Rugg, Warren Fuller	s	<i>Ware, Mass.</i>	W. H. 18
Salinger, Leon Alfred	L	<i>Rochester, N. H.</i>	C. H. 3
Sampson, George Arthur	L	<i>Middleboro, Mass.</i>	S. H. 5
Scales, Robert Leighton	c	<i>Dover, N. H.</i>	48 S. Main St.
Shanahan, Timothy Joseph	c	<i>Charlestown, Mass.</i>	Rn. H. 26
Sibley, Harold Thorndike	c	<i>Belfast, Me.</i>	Rn. H. 4
Smith, James Stuart	L	<i>Chicago, Ill.</i>	Rd. H. 19
Smith, Rolfe Wheelock	c	<i>Leominster, Mass.</i>	K. K. K. House
Snow, Hubert Marcy	c	<i>Washington, D. C.</i>	T. H. 9
Snow, Robert Oland	L	<i>Southampton, L. I.</i>	W. H. 8
Somes, George Frederick	c	<i>Manchester, N. H.</i>	C. H. 10
Stevens, Everett Mellen	s	<i>Nashua, N. H.</i>	S. H. 6
Sykes, Arthur James	s	<i>West Windsor, Vt.</i>	D. H. 2
Taylor, Henry LaForest	c	<i>Haverhill, Mass.</i>	C. H. 18

† Special course.

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Name	Course	Residence	Room
Thayer, Royal Bradford	C	Holbrook, Mass.	C. H. 8
True, Albert Lyman	S	Lancaster, Mass.	S. H. 9
VanderHoof, Douglas	L	Chicago, Ill.	Rn. H. 4
Wainwright, Edward Cowles	S	Hanover, N. H.	48 S. Main St.
Ward, Richard, Jr.	C	Lancaster, Mass.	C. H. 22
Warren, Edward Winslow	C	Marlboro, Mass.	Rn. H. 9
Washburne, Harry Osbert	C	Hartford, Vt.	S. H. 21
Whelan, Charles	S	Weymouth, Mass.	S. H. 23
Whitaker, Earl Francis	S	Woonsocket, R. I.	W. H. 19
Whitcomb, Rubert Henry	C	Winchendon, Mass.	S. H. 2
Wilson, John Edward	C	Natick, Mass.	C. H. 17
Wood, Theodore Newton	L	Middleboro, Mass.	S. H. 13
Young, Walter Stevens	S	Londonderry, N. H.	48 S. Main St.

SOPHOMORES

Abbott, Guy Hammond	L	St. Johnsbury, Vt.	W. H. 2
Adams, Almon Edgar	C	Littleton, N. H.	H. H. 9
Adams, Herbert Carroll	S	Haverhill, Mass.	W. H. 12
Adriance, William	C	Winchester, Mass.	E. H. 1
Alling, Benjamin Willard	C	Kensington, Conn.	B. H. 2
Anguera, Herman Keidel Clifford de	S	Wakefield, Mass.	15 E. Wheelock St.
Archibald, Frank Stearns	S	Hinsdale, N. H.	D. H. 8
Archibald, Kenneth	C	Brockton, Mass.	Rd. H. 6
Baldwin, Ralph Dudley	C	Andover, Mass.	S. H. 15
Ballou, Harry Burchard	C	Bristol, N. H.	5 W. South St.
Banning, Kendall	C	Walpole, N. H.	Rd. H. 8
Barnes, Thomas Louis	C	Waltham, Mass.	W. H. 13
Beaudry, George Hobbs	C	Marlboro, Mass.	E. H. 1
Blake, Walter Penniman	C	Spencer, Mass.	Rd. H. 15
Brackett, Karl Starkey	S	Westboro, Mass.	23 N. Main St.
Bradley, Frederick Oliver	C	Evanston, Ill.	E. H. 7
Briggs, Herbert Wilfred	C	New York, N. Y.	Rd. H. 14
Brown, Julius Arthur	C	New York, N. Y.	Rd. H. 14
Bunker, Frank Parker	C	South Tamworth, N. H.	D. H. 10
Burke, Thomas Joseph	C	Boston, Mass.	Rd. H. 17
Cannell, John Weston	C	Everett, Mass.	C. H. 20
Carleton, Ralph Howard	C	Haverhill, Mass.	W. H. 2
Carley, Neale Severance	C	Shelburne Falls, Mass.	E. H. 10
Chace, Robert Arnold	C	Chicago, Ill.	10 W. South St.

Name	Course	Residence	Room
Chivers, Arthur Houston	C	Amesbury, Mass.	T. H. 13
Cilley, Edgar Frank	C	Lowell, Mass.	T. H. 12
Clark, Robert Browning	L	Belmont, Mass.	Rn. H. 3
Clark, Robert Cushman	C	West Brattleboro, Vt.	B. H. 3
Cofran, Frank Eugene	S	Hanover, N. H.	5 S. Park St.
Corse, Elton Lee	C	Richford, Vt.	K. K. K. House
Craig, Willis Parker	L	Marlow, N. H.	D. H. 8
Cregg, Edward Francis	L	Lawrence, Mass.	W. H. 7
Gristy, Austin Phelps, Jr.	C	Worcester, Mass.	Rn. H. 6
Cushing, Daniel Thomas	C	Quechee, Vt.	Rd. H. 1
Dalrymple, Albert Herman	C	Concord, N. H.	W. H. 1
Davis, Carroll Worthen	S	Post Mills, Vt.	13 E. Wheelock St.
Davis, Harry Arthur	S	New Market, N. H.	32 N. Main St.
Dearborn, Stanley Alex	C	Wakefield, Mass.	Rd. H. 8
Dillingham, Paul Shipman	C	Waterbury, Vt.	S. H. 24
Dorr, Percy Orrin	C	Somersworth, N. H.	Rn. H. 15
Dow, George Lincoln	C	Cambridge, Mass.	H. H. 18
Drake, James Frank	C	Pittsfield, N. H.	T. H. 23
Dudley, Charles Howard	† S	Littleton, N. H.	W. H. 9
Duggan, Francis John	S	Worcester, Mass.	Rn. H. 26
Easson, James	C	Troy, N. Y.	A. A. ♠ House
Eaton, Arthur Leon	C	Nashua, N. H.	T. H. 10
Edson, Pearl Paine	C	Worcester, Mass.	H. H. 18
Elderkin, George Wicker	C	Chicago, Ill.	5 Allen St.
Elliott, Robert Henry	L	Lowell, Mass.	T. H. 10
Emery, Carroll Fletcher	S	Evansville, Ind.	S. H. 10
Estabrook, Robert Francis	C	Boston, Mass.	S. H. 15
Farr, Leslie Boynton	S	Hanover, N. H.	15 E. Wheelock St.
Farwell, Hermon Waldo	C	Keene, N. H.	W. H. 10
Field, Arthur Sargent	C	Chicago, Ill.	1 N. Park St.
Fitzgerald, Amos Harold	L	North Tewksbury, Mass.	W. H. 12
Fitzpatrick, Louis Johnstone	C	Portland, Me.	S. H. 3
Fletcher, Edward Jordan	† S	Portland, Me.	C. H. 15
Fowler, Clayton Holt	C	Epsom, N. H.	Rd. H. 3
Freeman, Ross Manahan	S	Lebanon, N. H.	9 Pleasant St.
French, Frank Payson	S	Bedford, N. H.	9 College St.
Fullington, Christopher Chadwick	L	Johnson, Vt.	S. H. 21
Furber, Charles Harris	C	Hanover, N. H.	8 School St.
Gay, Charles Waterman	S	Quincy, Ill.	H. H. 10
Gibbons, Edward Francis	C	Hingham, Mass.	W. H. 11
† Special course.			

STUDENTS

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Name	Course	Residence	Room
Gilchrist, Robert Howard	s	<i>South Hartford, N. Y.</i>	E. H. 3
Gilman, John Sanborn	c	<i>Farmington, N. H.</i>	12 Lebanon St.
Goddard, Charles William	c	<i>Boston, Mass.</i>	H. H. 18
Goodell, Robert Hosea	c	<i>South Framingham, Mass.</i>	K. K. K. House
Goodwin, Austin Monroe	L	<i>Biddeford, Me.</i>	Rn. H. 7
Graham, George Sellers	L	<i>Everett, Mass.</i>	Rood House 15
Griffin, John Francis	L	<i>South Hadley Falls, Mass.</i>	W. H. 14
Griffin, Philip Charles	c	<i>Chicago, Ill.</i>	48 S. Main St.
Griggs, Leland	c	<i>Hanover, N. H.</i>	9 Pleasant St.
Hall, Francis Chamberlain	s	<i>Winchester, Mass.</i>	S. H. 28
Hall, William Clark	L	<i>Manchester, N. H.</i>	Rd. H. 11
Harris, Howard Merton	c	<i>Plaistow, N. H.</i>	W. H. 2
Hartshorn, John Edward	s	<i>Kensington, Md.</i>	S. H. 8
Hatch, Roy Winthrop	c	<i>Marshfield, Mass.</i>	Rood House 15
Hayes, Allen Milliken	c	<i>North Berwick, Me.</i>	T. H. 4
Hazen, Clarence Milton	c	<i>West Lebanon, N. H.</i>	Rood House 14
Hill, Harry Cyrus	s	<i>Concord, N. H.</i>	K. K. K. House
Hill, Lawrence Richardson	L	<i>Concord, N. H.</i>	A. A. ♣. House
Hill, William Carroll	L	<i>Milford, N. H.</i>	E. H. 6
Hines, Ezra Dodge, Jr.	s	<i>Danvers, Mass.</i>	3 College St.
Holmes, Joseph Edwin	c	<i>Arlington, Mass.</i>	S. H. 4
Holt, Clarence Blake	c	<i>Portland, Me.</i>	Rn. H. 25
Houghton, Arthur Stillman	L	<i>Worcester, Mass.</i>	9 College St.
Howard, William, Jr.	L	<i>Brooklyn, N. Y.</i>	S. H. 3
Howard, William Hanson, Jr.	c	<i>Lowell, Mass.</i>	C. H. 15
Hubbard, George Morrison	s	<i>New Britain, Conn.</i>	B. H. 2
Hubbard, Thomas Parker	c	<i>West Boxford, Mass.</i>	K. K. K. House
Huchting, William Ernest	s	<i>Brooklyn, N. Y.</i>	Rn. H. 19
Huntington, James Lincoln	c	<i>Hanover, N. H.</i>	19 S. Main St.
Irvin, Arba J	L	<i>Chicago, Ill.</i>	C. H. 20
Keniston, Davis Baker, Jr.	c	<i>Plymouth, N. H.</i>	10 N. Main St.
Kennedy, Alfred Rufus	L	<i>Lowell, Mass.</i>	T. H. 12
Kimball, Louis Maurice	c	<i>North Haverhill, N. H.</i>	K. K. K. House
Kirchberger, Richard Siegfried	s	<i>Chicago, Ill.</i>	Rn. H. 7
Kircher, Charles Arthur	L	<i>Webster, N. Y.</i>	D. H. 4
Kivel, Frank	c	<i>Dover, N. H.</i>	Rn. H. 17
Ladd, Carey Prentiss	c	<i>Greenfield, Mass.</i>	19 N. Main St.
Lamprey, David Clinton, Jr.	L	<i>Manchester, N. H.</i>	Rd. H. 11
Lamprey, Harold Irving	c	<i>North Hampton, N. H.</i>	11 E. Wheelock St.
Larned, Richard Montgomery, Jr.	c	<i>Newtonville, Mass.</i>	K. K. K. House
Leach, Homer Zenas	c	<i>Waterville, Vt.</i>	Rood House 18

Name	Course	Residence	Room
Leahy, Maurice Joseph	L	South Hadley Falls, Mass.	Rd. H. 7
Luce, Barnard Coffin	s	Vineyard Haven, Mass.	K. K. K. House
Lyons, Dennis Francis	c	Danvers, Mass.	W. H. 15
McCaughern, John Casey	s	Hinsdale, N. H.	T. H. 18
McGovern, Thomas Francis	s	Worcester, Mass.	Rn. H. 16
McKinnon, Allan Parmalee	L	Boston, Mass.	Rn. H. 21
McVicar, Edward Joseph	c	Auburndale, Mass.	4 School St.
Mahoney, William Henry	L	Miller's Falls, Mass.	D. H. 1
Mandel, Eugene David	s	Chicago, Ill.	Rn. H. 21
Merrill, Arthur Hodges	c	Portland, Me.	Rn. H. 17
Merrill, Roy Stanley	c	Shelburne Falls, Mass.	E. H. 10
Merrill, Thaddeus Jasper	L	Chicago, Ill.	S. H. 4
Moore, Frank Cochrane	c	Goffstown, N. H.	W. H. 15
Morehouse, Theodore Chester	c	Darien, Conn.	S. H. 24
Morse, Kenneth Lee	c	Hanover, N. H.	25 W. Wheelock St.
Munroe, James Albert	c	Jamaica Plain, Mass.	H. H. 14
Murphy, Francis Vincent	c	Newport, R. I.	4 School St.
Murray, William Henry	c	South Lancaster, Mass.	D. H. 4
Newcomb, Rush Frederick	s	Union Village, Vt.	13 E. Wheelock St.
Newman, George Willard	s	Keene, N. H.	W. H. 10
Newman, Sewall Edwin	s	Beverly, Mass.	H. H. 9
O'Connor, John Christopher	s	Bradford, Mass.	C. H. 14
Osgood, Fred Wheeler	s	Fitchburg, Mass.	37 S. Main St.
Paine, Raymond Elder	L	Boston, Mass.	T. H. 19
Parker, Harold Francis	L	Reading, Mass.	C. H. 12
Parker, Herbert Gooding	c	Worcester, Mass.	Rn. H. 15
Parry, Augustus Newell, Jr.	s	Amesbury, Mass.	Rn. H. 7
Passage, George Azel	c	St. Paul, Minn.	T. H. 2
Patrell, Arthur Ellis	s	Wilder, Vt.	Wilder, Vt.
Pattee, George Kynett	c	Bristol, N. H.	37 S. Main St.
Peckham, Reuben	L	Troy, N. Y.	A. A. ♀. House
Pember, Karl Albright	c	Woodstock, Vt.	48 College St.
Perkins, Moses Bradstreet	c	Salem, Mass.	Rd. H. 10
Pillsbury, Henry Church	c	Lowell, Mass.	Rd. H. 2
Plumer, Harold Edward	s	Rollinsford, N. H.	1 S. Park St.
Porter, John Endicott	s	Danvers, Mass.	W. H. 13
Pratt, David Damon	L	South Easton, Mass.	8 College St.
Rice, Winfield Lawrence	c	Boothbay Harbor, Me.	Rd. H. 4
Riley, Francis Bennett	s	Chicago, Ill.	8 W. South St.
Rowe, Otis Arthur	c	Gilford, N. H.	D. H. 10
Ruggles, Arthur Hiler	c	Hanover, N. H.	21 N. Main St.

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Name	Course	Residence	Room
Ruggles, Arthur Valentine	s	Clinton, Mass.	Rn. H. 24
Sanborn, Harvey Beede	c	Gonic, N. H.	8 College St.
Sanborn, Hugh Montgomery	c	Henniker, N. H.	5 College St.
Sanborn, Henry Nichols	c	Boston, Mass.	Rd. H. 17
Sawyer, Enos Kittredge	c	Franklin Falls, N. H.	Rn. H. 25
Sayward, Harry Morton	c	Ipswich, Mass.	Rn. H. 11
Schilling, Albert Henry	s	New Britain, Conn.	T. H. 20
Smith, Cyril Austin	c	Middleboro, Mass.	T. H. 21
Smith, Chesley Hartt	L	Plymouth, N. H.	T. H. 24
Smith, Robert Holbrook	c	St. Johnsbury, Vt.	K. K. K. House
Soper, Ralph Carroll	c	South Royalton, Vt.	25 S. Main St.
Stanley, Arthur Penrhyn	s	Bolsters' Mills, Me.	Rd. H. 9
Stanton, Fred Caswell	s	Vineyard Haven, Mass.	Rd. H. 18
Stevens, Benjamin Scott	c	North Haven, Conn.	K. K. K. House
Stone, Howard Perley	c	Haverhill, Mass.	W. H. 2
Studwell, Chester Arthur	s	Port Chester, N. Y.	T. H. 21
Tappan, Crosby	s	Sharon, Mass.	H. H. 5
Taylor, Ralph Hayden	c	Haverhill, Mass.	C. H. 18
Thompson, Philip Pickering	c	Portland, Me.	C. H. 13
Thompson, William Bisbee	L	Everett, Mass.	8 W. South St.
Tozzer, Arthur Clarence	s	Lynn, Mass.	E. H. 6
Tracy, Henry Carroll	c	Hartford, Vt.	6 College St.
Tuttle, Arthur Pearl	c	Andover, Mass.	S. H. 17
Varney, Lawrence Delano	s	Dover, N. H.	The Wheelock
Walker, John	s	New Britain, Conn.	T. H. 20
Warner, Harry Eugene	c	Brooklyn, N. Y.	C. H. 13
Warwick, George, Jr.	c	Stoughton, Mass.	Rd. H. 16
Watson, Ernest Bradlee	c	Dorchester, Mass.	T. H. 19
Wells, Albert Warren	s	Quincy, Ill.	Rd. H. 19
Whitcher, Burr Royce	c	Woodsville, N. H.	9 College St.
Winslow, Asa Irving	c	Lakeville, Mass.	T. H. 13
Wright, Joseph Garfield	c	Lowell, Mass.	Rd. H. 2

FRESHMEN

Avery, Maurice Hussey	c	Nashua, N. H.	8 School St.
Baker, Fred W	c	Lancaster, N. H.	32 N. Main St.
Barrows, Samuel Fay	c	Lowell, Mass.	S. H. 17
Batchelder, James Hayward	c	Keene, N. H.	Rn. H. 12
Batchelder, Nathaniel Hay- ward	c	Keene, N. H.	Rn. H. 12
Bates, Herbert Nelson	s	Hingham Centre, Mass.	W. H. 23

Name	Course	Residence	Room
Bennett, Hamlin Perley	C	<i>Farmington, N. H.</i>	12 Lebanon St.
Bergengren, Roy Frederick	L	<i>Lynn, Mass.</i>	E. H. 5
Blaisdell, Harry Stephen	S	<i>Goffstown, N. H.</i>	Rd. H. 1
Bloch, Morris	C	<i>Albany, N. Y.</i>	48 College St.
Bolster, Arthur Stanley	C	<i>Nashua, N. H.</i>	S. H. 7
Bradley, David Emery, Jr.	L	<i>Evanston, Ill.</i>	E. H. 7
Brewer, Robert DuBois	L	<i>Brookline, Mass.</i>	H. H. 24
Brown, Ernest Lee	L	<i>Lebanon, N. H.</i>	8 College St.
Brown, Fred Herbert	L	<i>Ossipee, N. H.</i>	The Wheelock
Brown, Marcus Richard	L	<i>Fall River, Mass.</i>	S. H. 5
Brown, Phillip Lowell	C	<i>Amesbury, Mass.</i>	14 W. Wheelock St.
Brown, Raymond Warren	S	<i>Bradford, Vt.</i>	5 College St.
Brown, Thomas Stephen	C	<i>Deerfield, N. H.</i>	23 S. Main St.
Bullard, Harold Arvel	L	<i>Lancaster, N. H.</i>	34 N. Main St.
Bunker, Charles Clinton	C	<i>Mercer, Me.</i>	H. H. 8
Burbeck, Edward Kimball	C	<i>Manchester, N. H.</i>	48 College St.
Burnham, Kingsley Allan	S	<i>Roxbury, Mass.</i>	Rn. H. 20
Chapin, William Sanders	C	<i>Linching, China</i>	B. H. 4
Chedel, Charles Brigham	C	<i>Pittsfield, Vt.</i>	T. H. 11
Cobb, Stanwood	C	<i>Newton Highlands, Mass.</i>	E. H. 8
Cohen, Arthur Joseph	C	<i>New York, N. Y.</i>	8 College St.
Collins, Francis Joseph	S	<i>Worcester, Mass.</i>	25 N. Main St.
Colton, Chauncey Corey	L	<i>Danvers, Mass.</i>	T. H. 11
Comstock, Harold Dearborn	C	<i>Chelsea, Vt.</i>	B. H. 4
Conner, William Hayden	C	<i>Haverhill, Mass.</i>	H. H. 21
Cook, James Nelson	S	<i>Centre Harbor, N. H.</i>	S. H. 11
Cornwell, William Eames	S	<i>Rome, N. Y.</i>	E. H. 4
Cresswell, James Baxter	C	<i>Hingham, Mass.</i>	W. II. 24
Crosse, Franklin	C	<i>Lewiston, Me.</i>	A. H. 5
Crowell, John	C	<i>Cleveland, O.</i>	II. H. 12
Cushing, Henry Dwight	C	<i>South Hingham, Mass.</i>	W. H. 24
Cutter, Victor Macomber	L	<i>Lowell, Mass.</i>	T. H. 10
Daniels, Edwin Abram	C	<i>Lyndon, Vt.</i>	H. H. 11
Darling, Harold Duncan	C	<i>Hyde Park, Mass.</i>	Rd. H. 4
Davis, Robert Meacham	C	<i>Newton, Mass.</i>	9 College St.
Day, Ernest Elliot	C	<i>Lyman, Me.</i>	12 Lebanon St.
Day, Harry Llewellyn	C	<i>Lyman, Me.</i>	12 Lebanon St.
Decatur, Arthur Garfield	L	<i>Rochester, N. H.</i>	C. H. 3
Delano, Henry Ward	C	<i>Marion, Mass.</i>	Hd. H. 9
Dondero, Charles Anthony	L	<i>Portsmouth, N. H.</i>	S. H. 19
Douglass, Douglass Burns	L	<i>Fort Wayne, Ind.</i>	10 W. South St.
Dunn, Morley Knight	C	<i>South Dartmouth, Mass.</i>	48 College St.

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Name	Course	Residence	Room
Durrell, Ralph Oliver	c	Cambridge, Mass.	Rn. H. 29
Eastman, Richard Taft	s	Littleton, N. H.	Rn. H. 17
Edwards, Charles Berkeley	c	Haverhill, Mass.	C. H. 9
English, Martin Joseph	c	Worcester, Mass.	25 N. Main St.
Erwin, Clayton Lemuel	c	Bradford, Vt.	6 College St.
Farley, Carl Howard	s	Nashua, N. H.	D. H. 12
Farmer, Allen Brown	L	Roxbury, Mass.	Rn. H. 27
Follett, Herbert Champion	L	Chicago, Ill.	44 College St.
Ford, George Denham	c	Brooklyn, N. Y.	H. H. 23
French, Morton Bowles	c	Athol, Mass.	8 College St.
Gage, George Harmon	c	Lawrence, Mass.	S. H. 10
Gale, David Carroll	s	Williamstown, Vt.	10 College St.
Grant, Barton Howard	s	Worcester, Mass.	Rn. H. 30
Grant, William West, Jr.	c	Denver, Colo.	C. H. 6
Guardineer, Frederick Reid	L	Albany, N. Y.	48 College St.
Hadley, Chester Barton	s	Arlington Heights, Mass.	10 W. South St.
Hale, Floyd Orlin	L	Windsor, Vt.	34 N. Main St.
Hall, Charles Taber	c	Everett, Mass.	D. H. 9
Hall, Forrest Joslin	c	Keene, N. H.	W. H. 18
Hallinan, Charles Thomas	c	Kansas City, Mo.	10 W. South St.
Hanlon, Arthur Edward	c	Salem, Mass.	27 S. Main St.
Hartshorn, Willard La Monte	L	Evanston, Ill.	C. H. 6
Haselwood, Willis Henry	s	Quincy, Ill.	H. H. 12
Haugan, Henry Alexander	s	Chicago, Ill.	Rn. H. 29
Hausmann, Daniel Andrew	L	Albany, N. Y.	40 S. Main St.
Hendley, William Rawlins	s	Chicago, Ill.	12 Lebanon St.
Hess, Harold Miner	L	Evanston, Ill.	44 College St.
Hill, Nathaniel Wood	c	Newark, N. J.	Hd. H. 7
Hinckley, Daniel Roy	c	West Lebanon, N. H.	48 College St.
Holbrook, Arthur Raymond	c	Ashland, Mass.	H. H. 8
Houlihan, John Francis	s	South Hadley Falls, Mass.	48 S. Main St.
Howard, Preston Wilbar	c	Brockton, Mass.	S. H. 29
Howes, Clarence Gray	L	Reading, Mass.	C. H. 5
Howland, Densmore Bishop	c	Franconia, N. H.	W. H. 9
Jackson, Andrew	c	Littleton, N. H.	H. H. 9
Johnson, Carl Chester	s	Fitchburg, Mass.	S. H. 11
Johnson, Charles Edward	L	North Andover, Mass.	W. H. 1
Johnston, Frederic Safford	c	Attleboro, Mass.	27 S. Main St.
Jones, Philip Nelson	c	Haverhill, Mass.	C. H. 9
Kelley, Herbert Lester	L	Franklin Falls, N. H.	D. H. 11
Kellner, Harold Edwin	L	Newark, N. J.	C. H. 5
Kenerson, Edward Hibbard	c	Roxbury, Mass.	E. H. 2

Name	Course	Residence	Room
Keyes, Ralph Preble	c	<i>Somerville, Mass.</i>	E. H. 9
Kidger, Horace	L	<i>Everett, Mass.</i>	D. H. 9
Kimball, Leigh Wadsworth	c	<i>Penn Yan, N. Y.</i>	C. H. 17
King, Henry Clay	c	<i>Lawrence, Mass.</i>	Hd. H. 8
King, Harold Davis	c	<i>West Farmington, Me.</i>	24 Lebanon St.
Kirchberger, Edgar Friedman	s	<i>Chicago, Ill.</i>	Rn. H. 11
Leach, Robert Milton	s	<i>Franklin, N. H.</i>	C. H. 19
Lewers, Ralph Edward	L	<i>Brooklyn, N. Y.</i>	H. H. 23
Libby, Ralph Leonard	c	<i>Dover, N. H.</i>	34 N. Main St.
Linnell, Harry Leslie	s	<i>Wollaston, Mass.</i>	H. H. 6
Lovell, Aldis Willard	L	<i>Alstead, N. H.</i>	9 College St.
Luce, Charles Lyman	c	<i>Nashua, N. H.</i>	8 School St.
Lyman, Timothy	c	<i>West Brookfield, Mass.</i>	H. H. 15
McClary, Nelson Ford	s	<i>Malone, N. Y.</i>	34 N. Main St.
McEldowney, William Franklin	s	<i>Chicago Heights, Ill.</i>	10 W. South St.
McElroy, John Hale	c	<i>Albany, N. Y.</i>	34 N. Main St.
McElwain, Herbert Andrew	s	<i>Enfield Centre, N. H.</i>	H. H. 7
McGowan, Robert	c	<i>North Grafton, Mass.</i>	E. H. 11
McKee, Paul Robert	L	<i>Albany, N. Y.</i>	H. H. 14
MacLennan, Edgar Allen	c	<i>Roxbury, Mass.</i>	Hd. H. 10
MacLennan, John William	c	<i>Roxbury, Mass.</i>	Hd. H. 10
McManus, James William	L	<i>Lawrence, Mass.</i>	H. H. 10
Maguire, Peter Joseph	L	<i>South Hadley Falls, Mass.</i>	48 S. Main St.
Mahoney, Jeremiah Francis	s	<i>North Andover, Mass.</i>	W. H. 5
Mansur, George Fred	L	<i>West Derry, N. H.</i>	Hd. H. 5
Martin, Nelson Eugene	c	<i>Cheshire, Mass.</i>	D. H. 6
Matteson, Byron Winfield	L	<i>New York, N. Y.</i>	Rd. H. 14
Mechlin, Oscar Alexander	s	<i>Washington, D. C.</i>	13 W. Wheelock St.
Morrison, Clarence Edwin	c	<i>Lawrence, Mass.</i>	10 W. South St.
Morrison, Charles Franklin	s	<i>Lawrence, Mass.</i>	10 W. South St.
Morse, Harold Marston	L	<i>Brooklyn, N. Y.</i>	W. H. 23
Moulton, Frank Arthur	c	<i>Dorchester, Mass.</i>	S. H. A.
Mudge, Otis Pope	L	<i>Danvers Centre, Mass.</i>	6 W. South St.
Mullett, George Burnam	c	<i>North Brookfield, Mass.</i>	H. H. 17
Murphy, Sherman Arnold	L	<i>Albany, N. Y.</i>	H. H. 14
Musgrove, George Egbert	s	<i>Pittsfield, Mass.</i>	D. H. 5
Neal, Cleland Richardson	c	<i>Amesbury, Mass.</i>	14 Wheelock St.
Neal, Ralph Worrick	c	<i>Salem, Mass.</i>	E. H. 2
Nesmith, Walter Scott	c	<i>Goffstown, N. H.</i>	Hd. H. 5
Newell, Charles Edward	c	<i>West Derry, N. H.</i>	5 W. South St.
Noyes, Arthur Percy	c	<i>West Canaan, N. H.</i>	H. H. 7
Palmer, Albert Rollins	c	<i>Brooklyn, N. Y.</i>	H. H. 13

STUDENTS

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Name	Course	Residence	Room
Palmer, Harold Viall	s	<i>Reading, Mass.</i>	C. H. 12
Palmer, John Lothair	s	<i>Newtonville, Mass.</i>	Hd. H. 7
Palmer, Percival Bowditch, Jr.	s	<i>Chicago, Ill.</i>	Rn. H. 8
Patch, George William	c	<i>Shelburne Falls, Mass.</i>	E. H. 12
Paul, Carroll	s	<i>Washington, D. C.</i>	13 W. Wheelock St.
Peirce, George Leon	L	<i>Somerville, Mass.</i>	15 E. Wheelock St.
Perham, Frank Stuart	L	<i>Hanover, N. H.</i>	6 W. South St.
Pierpont, Henry Warner	c	<i>New Haven, Conn.</i>	38 N. Main St.
Pillsbury, Ralph William	s	<i>Boscawen, N. H.</i>	9 College St.
Porter, Henry George	s	<i>Bartlett, N. H.</i>	Rd. H. 9
Pratt, Alton Gerard	c	<i>North Middleboro, Mass.</i>	S. H. 13
Reed, George Albert	s	<i>Barre, Vt.</i>	10 College St.
Robinson, Oeton Brackett	c	<i>Brookline, Mass.</i>	S. H. 11
Ropes, Howard Leon	s	<i>Methuen, Mass.</i>	3 School St.
Ruppel, Henry Erich Kase- mere	L	<i>Brooklyn, N. Y.</i>	Rn. H. 28
Ryder, Frederic Mason	s	<i>Middleboro, Mass.</i>	S. H. 7
Safford, Henry Gates	c	<i>Quechee, Vt.</i>	H. H. 11
Schlatte, Edward Bunker	c	<i>Brooklyn, N. Y.</i>	W. H. 22
Scudder, Harold Hungerford	s	<i>Washington, D. C.</i>	13 W. Wheelock St.
Skinner, Azro Karl	c	<i>Keene, N. H.</i>	The Wheelock
Sleicher, George Ingalls	L	<i>Albany, N. Y.</i>	32 N. Main St.
Smith, Albert Edward	c	<i>Albany, N. Y.</i>	23 N. Main St.
Smith, Arthur Kendal	c	<i>West Boylston, Mass.</i>	D. H. 6
Smith, Harold Elno	c	<i>Lebanon, N. H.</i>	8 College St.
Smith, James Francis	L	<i>Wilder, Vt.</i>	H. H. 17
Smith, Orvil Weaver	c	<i>Lewiston, Me.</i>	A. H. 5
Smith, Sherman	s	<i>Omaha, Neb.</i>	23 N. Main St.
Stevens, William Lyman	L	<i>Concord, N. H.</i>	Rn. H. 10
Stewart, Hollis Walter	c	<i>Glens Falls, N. Y.</i>	C. H. 13
Stockwell, Alexander Lewis	c	<i>Watertown, Mass.</i>	T. H. 5
Swan, Laurence Clarke	c	<i>Stoughton, Mass.</i>	Rd. H. 16
Swenson, Omar Stephen	s	<i>West Concord, N. H.</i>	Hd. H. 7
Swett, Peter Mansfield	s	<i>Lynn, Mass.</i>	W. H. 22
Tapper, Charles Albert	c	<i>Elgin, Ill.</i>	9 College St.
Thomas, Philip Williams	c	<i>Neath, Pa.</i>	1 N. Park St.
Thorpe, Jesse Leroy	c	<i>Lisbon, N. H.</i>	W. H. 17
Tobey, Walter Harvey	c	<i>Guilford, Me.</i>	Rood House 14
Wadham, John Pray	L	<i>West Newton, Mass.</i>	E. H. 4
Walker, James Christie	L	<i>Barre, Vt.</i>	10 College St.
Walther, Julius Bernhardt	s	<i>Woonsocket, R. I.</i>	W. H. 19
Warner, Southard Parker	c	<i>Washington, D. C.</i>	Rn. H. 20

Name	Course	Residence	Room
Watson, William Harry	L	<i>Danvers, Mass.</i>	D. H. 2
Webb, Charles Alfred	C	<i>Bradford, Vt.</i>	48 College St.
Wentworth, Franklin Wesley	S	<i>Chelsea, Mass.</i>	Rd. H. 18
Wentworth, John Paul	L	<i>Sandwich, N. H.</i>	C. H. 8
Whelden, Perley Eaton	C	<i>Ludlow, Vt.</i>	H. H. 13
Whipple, Dana Bryden	C	<i>Lowell, Mass.</i>	S. H. 17
Wiley, Mark Bruce	L	<i>St. Albans, Vt.</i>	T. H. 11
Wilson, Earle Elwin	C	<i>Corinth, Vt.</i>	6 College St.
Woodward, Henry Elliot	S	<i>Lexington, Mass.</i>	W. H. 11
Woolverton, William Hand	L	<i>Washington, D. C.</i>	T. H. 18
Worthen, Carl Burpee	C	<i>Melrose, Mass.</i>	E. H. 9

SUMMARY

GRADUATE STUDENTS	.	.	.	.	.	.	.	5
SENIORS	.	.	.	.	.	.	.	128
JUNIORS	.	.	.	.	.	.	.	132
SOPHOMORES	.	.	.	.	.	.	.	178
FRESHMEN	.	.	.	.	.	.	.	184
TOTAL	.	.	.	.	.	.	.	627

DISTRIBUTION BY STATES

MASSACHUSETTS	.	.	251	RHODE ISLAND	.	.	3
NEW HAMPSHIRE	.	.	172	INDIANA	.	.	2
VERMONT	.	.	59	MINNESOTA	.	.	2
NEW YORK	.	.	43	PENNSYLVANIA	.	.	2
ILLINOIS	.	.	35	COLORADO	.	.	1
MAINE	.	.	26	DELAWARE	.	.	1
CONNECTICUT	.	.	12	MARYLAND	.	.	1
DISTRICT OF COLUMBIA	.	.	7	MICHIGAN	.	.	1
NEW JERSEY	.	.	3	MISSOURI	.	.	1
OHIO	.	.	3	NEBRASKA	.	.	1
CHINA	.	.	.	.	.	.	1

MEDICAL STUDENTS

FOURTH YEAR

Name	Residence	Room
Abbott, Charles Benjamin	<i>Bradford, N. H.</i>	4 College St.
Ballard, Clarence Pressey	<i>West Concord, N. H.</i>	3 College St.
Barker, Ralph Higgins	<i>Pittsfield, N. H.</i>	25 Lebanon St.
Barrows, Elmer Ashley	<i>South Strafford, Vt.</i>	29 Allen St.
Bartlett, Percy, A.B.	<i>Ellsworth, Me.</i>	Medical Building
Beckwith, Henry Witter	<i>East Lyme, Conn.</i>	Medical Building
Bessey, Earl Emerson	<i>Waterville, Me.</i>	25 Lebanon St.
Black, James Stanislaus	<i>Nashua, N. H.</i>	16 Maple St.
*Brownell, Roger William	<i>Bristol, R. I.</i>	
Buckley, James Joseph	<i>Dover, N. H.</i>	48 S. Main St.
Carr, Burt Wilbur, A.B.	<i>Pittsfield, N. H.</i>	Norwich, Vt.
Clark, Edward James	<i>Lowell, Mass.</i>	17 Lebanon St.
Decker, Frederick Stanford	<i>Little Falls, N. Y.</i>	54 S. Main St.
Elliott, William Thomas	<i>Rumford, Me.</i>	54 S. Main St.
Goodwin, Harold Carl	<i>Amesbury, Mass.</i>	17 Lebanon St.
Granger, Eugene Norton	<i>Harrisville, R. I.</i>	The Wheelock
Hoag, Albert Buffum	<i>North Sandwich, N. H.</i>	37 S. Main St.
Huckins, Theron Howard, B.L.	<i>Plymouth, N. H.</i>	The Wheelock
Hurd, Benjamin Porter	<i>Unity, Me.</i>	13 Lebanon St.
Kennedy, James Edward	<i>Bristol, Conn.</i>	11 Pleasant St.
Ladd, Joseph Howard	<i>Northfield, Vt.</i>	25 Lebanon St.
Ladd, Samuel Tilden	<i>Epping, N. H.</i>	16 Maple St.
Leathers, Enoch	<i>Hanover, N. H.</i>	9 S. Park St.
McLaughlin, Patrick William	<i>Clinton, Mass.</i>	3 Pleasant St.
Meserve, John Shackford, B.S.	<i>Dover, N. H.</i>	25 S. Main St.
Monahan, David Henry, A.B.	<i>Southington, Conn.</i>	The Wheelock
Norton, John Blakely, B.S.	<i>Middletown Springs, Vt.</i>	9 College St.
Paine, Robert Child	<i>East Woodstock, Conn.</i>	48 S. Main St.
Richards, Carl Taylor, B.L.	<i>Hinsdale, N. H.</i>	The Wheelock
Rubert, Kennedy Furlong, A.B.	<i>Owego, N. Y.</i>	10 N. Main St.
Rumrill, Clinton Joseph, A.B.	<i>Royalton, Vt.</i>	34 N. Main St.
Russell, Walter Burton	<i>Springfield, Mass.</i>	25 Lebanon St.

* Deceased.

Name	Residence	Room
Sanborn, Byron, A.B.	<i>Loudon Centre, N. H.</i>	29 Allen St.
Sargent, Elmer Ulysses	<i>Belmont, N. H.</i>	12 E. South St.
Sleeper, Karl Raymond	<i>Orange, Mass.</i>	18 Lebanon St.
Smith, Harry Wilbur	<i>Hampden, Me.</i>	9 S. Park St.
Smith, William Eugene	<i>Post Mills, Vt.</i>	The Wheelock
Walker, Charles Sidney	<i>Harrison, Me.</i>	Medical Building
Ward, Roy Joslyn, A.B.	<i>Hanover, N. H.</i>	The Hospital
West, Hiram Bachelder	<i>Contoocook, N. H.</i>	1 Maynard St.

THIRD YEAR

Albright, Clifford Brandt	<i>Williamson, N. Y.</i>	1 Maynard St.
Bakeman, Frank Albert	<i>Chelsea, Mass.</i>	13 E. South St.
Bates, Willard Asa	<i>Waterville, Me.</i>	Norwich, Vt.
Berwick, Joseph Henry	<i>Lawrence, Mass.</i>	1 Maynard St.
Bisbee, Walter Griswold	<i>Springfield, Vt.</i>	1 W. Wheelock St.
Bryant, John Edmund	<i>Barton, Vt.</i>	14 School St.
Connor, Michael Edward	<i>Amesbury, Mass.</i>	48 S. Main St.
Coolidge, John Wesley	<i>Hancock, N. H.</i>	15 School St.
Hatch, Laurence Brown	<i>St. Johnsbury, Vt.</i>	52 S. Main St.
Hills, Charles Everett	<i>Union, Me.</i>	13 Maple St.
Hunt, Wilson Eugene	<i>Loudon, N. H.</i>	The Wheelock
Lowd, Harry Mosher	<i>Swampscott, Mass.</i>	1 W. Wheelock St.
Mackenzie, Nicholas Young Brad-		
ford	<i>Ellsworth, Me.</i>	52 S. Main St.
Marshall, Augustus Thompson	<i>Roxbury, Mass.</i>	9 College St.
McBride, John	<i>Barnard, Vt.</i>	11 Pleasant St.
McCabe, Edward Louis	<i>Glendale, R. I.</i>	The Wheelock
Nelson, David	<i>Boston, Mass.</i>	19 Maple St.
Pearl, Leonard Silas	<i>Concord, N. H.</i>	17 Lebanon St.
Proctor, John Harvey, A.M.	<i>Hanover, N. H.</i>	10 N. Main St.
Scannell, Edward John	<i>West Lebanon, N. H.</i>	W. Lebanon, N. H.
Tabor, Edward Orlando, B.S.	<i>Hanover, N. H.</i>	3 School St.
Toye, John Ernest	<i>West Chelmsford, Mass.</i>	Medical Building
Watson, Maurice, A.B.	<i>Manchester, N. H.</i>	35 N. Main St.
White, Herbert Augustus	<i>Somerville, Mass.</i>	23 Lebanon St.
Whitmore, Albra	<i>Hanover, N. H.</i>	9 S. Park St.
Worthen, Eugene Mark	<i>Holderness, N. H.</i>	14 School St.

SECOND YEAR

Name	Residence	Room
Bugbee, Locke Harwood	<i>North Pomfret, Vt.</i>	5 W. Wheelock St.
Byrne, John Bernadine, Jr.	<i>Brooklyn, N. Y.</i>	The Wheelock
Chase, Walter Lincoln, B.P.	<i>Newtonville, Mass.</i>	31 S. Main St.
Cowern, Ernest William	<i>Contoocook, N. H.</i>	5 W. Wheelock St.
Cullen, James Augustine	<i>Lonsdale, R. I.</i>	21 School St.
Folsom, Charles Albert, A.B.	<i>West Epping, N. H.</i>	18 S. Main St.
France, Joseph Irwin, A.M.	<i>Port Deposit, Md.</i>	The Wheelock
Hill, Ernest Linwood	<i>West Townsend, Mass.</i>	5 W. Wheelock St.
Hopkins, Arthur Warren, A.B.	<i>Manchester, N. H.</i>	1 Maynard St.
Lally, Francis Henry	<i>Worcester, Mass.</i>	14 Lebanon St.
Lord, Frederick Pomeroy, A.B.	<i>Hanover, N. H.</i>	37 College St.
Marden, Martin Gould	<i>Allentown, Pa.</i>	19 Maple St.
Newhall, Alden Russell	<i>Lynn, Mass.</i>	29 Allen St.
Randall, William Joseph, B.L.	<i>Chelsea, Mass.</i>	34 N. Main St.
Sanborn, Frederick Rodney, A.B.	<i>Somersworth, N. H.</i>	The Wheelock
Sewall, Millard Freeman, A.B.	<i>York Village, Me.</i>	K. K. K. House
Turner, George Henry, Jr.	<i>Portland, Me.</i>	5 College St.
Wilder, Ralph Spencer, B.S.	<i>Winchendon, Mass.</i>	Medical Building
Yeaton, George William	<i>Concord, N. H.</i>	52 S. Main St.

FIRST YEAR

Badger, Edward Leon	<i>Pittsfield, Mass.</i>	D. H. 5
Barrows, Nathaniel Haven	<i>Haverhill, Mass.</i>	C. H. 14
Bigelow, Edward Bridge	<i>Grafton, Mass.</i>	K. K. K. House
Boyle, Charles John	<i>Worcester, Mass.</i>	34 N. Main St.
Buck, Burton Winthrop	<i>Manchester, N. H.</i>	20 N. Main St.
Butterfield, Clarence Egbert	<i>Perkinsville, Vt.</i>	D. H. 3
Carsley, Sidney Raymond	<i>New Portland, Me.</i>	48 S. Main St.
Chesley, Alfred Ervan	<i>North Andover, Mass.</i>	T. H. 7a
Clark, William Edward, Jr.	<i>Charlestown, N. H.</i>	D. H. 7
Dolloff, Charles Hall	<i>Everett, Mass.</i>	T. H. 16
Downing, Arthur Taylor	<i>Hanover, N. H.</i>	19 Allen St.
Drew, Charles Allen	<i>Sharon, Mass.</i>	Rn. H. 14
Dutton, Julius Maltby	<i>Newport, Vt.</i>	K. K. K. House
Fairfield, Arthur Perry	<i>Lyme, N. H.</i>	19 Allen St.
Gafforio, Pippo Joseph	<i>Bradford, N. H.</i>	Rood House 18
Gates, George Cushman Coleman	<i>Gardner, Mass.</i>	40 S. Main St.

Name	Residence	Room
Hatch, Royal	<i>North Strafford, Vt.</i>	T. H. 17
Hildreth, George Kelsea	<i>Bethlehem, N. H.</i>	Rd. H. 15
Kimball, Arthur Stevens	<i>Battle Creek, Mich.</i>	11 E. Wheelock St.
Long, John Hathaway	<i>Claremont, N. H.</i>	34 N. Main St.
Morse, Nathaniel Niles	<i>Brooklyn, N. Y.</i>	C. H. 2
Paull, Chester Alpheus	<i>Hollis, N. H.</i>	5 Lebanon St.
Prescott, Benjamin Franklin	<i>Epping, N. H.</i>	8 Lebanon St.
Roark, Thomas Francis	<i>West Gardner, Mass.</i>	19 Maple St.
Saben, Delano Mowry	<i>Winchester, N. H.</i>	50 S. Main St.
Severance, Robert Nathaniel	<i>Leyden, Mass.</i>	21 School St.
Stickney, William	<i>Bethel, Vt.</i>	C. H. 23
Tong, George William	<i>Brooklyn, N. Y.</i>	1 S. Main St.
Tuttle, Leonard Wason	<i>Milford, N. H.</i>	23 N. Main St.
Wallace, Arthur Lowell	<i>Nashua, N. H.</i>	9 College St.
Warden, John Bachop	<i>Hanover, N. H.</i>	8 Lebanon St.
Weston, Henry Reuben	<i>Windsor, Vt.</i>	34 N. Main St.
Woodman, James Brown	<i>West Lebanon, N. H.</i>	D. H. 7

SUMMARY

FOURTH YEAR	40
THIRD YEAR	26
SECOND YEAR	19
FIRST YEAR	33
TOTAL	118

THAYER SCHOOL STUDENTS

FIRST CLASS

Name	Residence	Room
Clark, Harry Wallace, B.S.	<i>Derry, N. H.</i>	1 S. Park St.
Gilman, John Alfred, B.S.	<i>West Fairlee, Vt.</i>	The Wheelock
Greenwood, Albert Henry, B.S.	<i>Lawrence, Mass.</i>	H. H. 2
Nolan, George Henry, B.S.	<i>Middleboro, Mass.</i>	D. H. 7
Oakes, Luther Stevens, B.S.	<i>Windsor, Vt.</i>	H. H. 2
Sanborn, John Leonard, B.S.	<i>Hyde Park, Mass.</i>	H. H.
Watson, Herbert Leslie, B.S.	<i>Manchester, N. H.</i>	Thayer Building
Whittier, Thomas Tupper, B.S.	<i>North Berwick, Me.</i>	25 S. Main St.
Winchester, Philip Harold, B.S.	<i>Portland, Me.</i>	Observatory

SECOND CLASS

Ash, John William	<i>Manchester, N. H.</i>	1 S. Park St.
Cate, Edgar Randal	<i>Haverhill, Mass.</i>	34 N. Main St.
Fowler, Alvah Tennant	<i>Pembroke, N. H.</i>	Rd. H. 3
Gibson, Jasper Manlius	<i>Clinton, Mass.</i>	6 W. South St.
Hoyt, Charles Hamilton	<i>Washington, N. H.</i>	The Wheelock
Norris, Arthur Henry	<i>Hyde Park, Mass.</i>	T. H. 7b
Paddock, Clarence Erwin	<i>East Berlin, Conn.</i>	W. H. 16
Rich, Charles Augustus	<i>Danvers, Mass.</i>	37 N. Main St.
Risley, Wilfred Cary	<i>Piermont, N. H.</i>	The Wheelock
Sargent, Charles	<i>Walpole, N. H.</i>	A. H. 4
Sears, Frank Dana	<i>Hyde Park, Mass.</i>	T. H. 7b
Sears, Horace Holmes	<i>Hyde Park, Mass.</i>	Thayer Building
Sprague, Embert Hiram	<i>Haverhill, Mass.</i>	6 W. South St.
Wood, John Hutchinson	<i>Norwich, Vt.</i>	A. A. ☉. House

SUMMARY OF STUDENTS

DARTMOUTH COLLEGE	627
MEDICAL SCHOOL	118
THAYER SCHOOL	23
<hr/>	
TOTAL (deducting for names inserted twice)	728

DISTRIBUTION BY STATES

MASSACHUSETTS	277	OHIO	3
NEW HAMPSHIRE	207	PENNSYLVANIA	3
VERMONT	73	INDIANA	2
NEW YORK	46	MARYLAND	2
MAINE	37	MINNESOTA	2
ILLINOIS	36	COLORADO	1
CONNECTICUT	17	DELAWARE	1
DISTRICT OF COLUMBIA	7	MICHIGAN	1
RHODE ISLAND	7	MISSOURI	1
NEW JERSEY	3	NEBRASKA	1
CHINA	1		

ABBREVIATIONS

A. H.	Allen Hall	H. H.	Hallgarten Hall
B. H.	Bartlett Hall	Hd. H.	Hubbard House
C. H.	Crosby House	Rd. H.	Reed Hall
D. H.	Dartmouth Hall	Rn. H.	Richardson Hall
E. H.	Elm House	S. H.	Sanborn House
F. H.	Fayerweather Hall	T. H.	Thornton Hall
W. H.	Wentworth Hall		

HONORS AND PRIZES

HENRY E. PARKER FELLOWSHIP

CLASS OF 1899 — Gordon Hall Gerould.

RUFUS CHOATE SCHOLARS

SENIORS — Kanichi Asakawa, Kenneth Beal, Earl Eastman, James Parmelee Richardson, Frank Miller Surrey, Lucius Everett Varney, Harley Richard Willard.

JUNIORS — Francis James Bradley, Harold Ripley Hastings, Harry LeBaron Sampson.

SOPHOMORES — Arthur Ela Buck, Eugene Madison Dow, Stanley Elroy Qua, George Frederick Somes.

FRESHMEN — Julius Arthur Brown, Leland Griggs.

FINAL HONORS

SENIORS

GREEK — James Parmelee Richardson.

ENGLISH — Kenneth Beal, Gordon Hall Gerould.

GERMAN — William Thompson Atwood, Earl Eastman, Augustine Ledru Heywood.

BIOLOGY — Raymond Pearl.

SPECIAL HONORS

GREEK — James Parmelee Richardson.

ENGLISH — Gordon Hall Gerould.

FRENCH — Earl Eastman.

GERMAN — Kanichi Asakawa, William Thompson Atwood, Kenneth Beal, Charles Henry Donahue, Earl Eastman, Augustine Ledru Heywood, James Parmelee Richardson.

MATHEMATICS — Lucius Everett Varney, Harley Richard Willard.

PHYSICS — Frank Miller Surrey.

BIOLOGY — Raymond Pearl.

MINERALOGY — Earl Eastman.

HISTORY — Augustine Ledru Heywood.

PHILOSOPHY — Herbert Adolphus Miller, Frank Miller Surrey.

HONORABLE MENTION

SENIORS

FRENCH — Charles Henry Donahue.

CHEMISTRY — Earl Eastman.

PHILOSOPHY — Frank Miller Surrey.

JUNIORS

ENGLISH — Roger Allen Dunlap, Homer Eaton Keyes, Frank Arthur Metcalf.

GERMAN — Roger Allen Dunlap, Arthur Bowers Hayden, Channing Tewksbury Sanborn, Howard Murray Tibbetts.

CHEMISTRY — Leon Burr Richardson.

ECONOMICS — Harry LeBaron Sampson.

SOPHOMORES

MATHEMATICS — Charles Richard Chase, Eugene Madison Dow, Herbert Washburne Hovey, Robert French Leavens, Donald Taylor Page.

HISTORY — Arthur Ela Buck, Carl Maynard Owen, George Frederick Somes.

GRAPHICS — Edgar Hayes Hunter.

PRIZES

Grimes — English Composition — Seniors.

First Prize — GORDON HALL GEROULD.

Second Prize — AUGUSTINE LEDRU HEYWOOD.

Lockwood — English Composition — Juniors.

First Prize — GUY ANDREWS HAM.

Second Prize — FRANCIS JAMES BRADLEY.

Atherton — Greek — Juniors.

First Prize — HAROLD RIPLEY HASTINGS.

Second Prize — FRANCIS JAMES BRADLEY.

*Class of 1846 — Latin — Juniors.**First Prize* — FRANCIS JAMES BRADLEY.*Second Prize* — No award.*Thayer — Mathematics — Sophomores.**First Prize* — EUGENE MADISON DOW.*Second Prize* — WARREN FULLER RUGG.*Pray — Modern Languages — Seniors.**German* — JAMES PARMELEE RICHARDSON.*French* — CHARLES HENRY DONAHUE.*Grimes — General Improvement — Seniors.*

EARL EASTMAN.

*Smith — Extemporaneous Debate — Seniors.**First Prize* — NELSON PIERCE BROWN.*Second Prize* — JOSEPH WILLIAM GANNON.*CLASS OF 1866 — Original Orations — Juniors and Sophomores.**First Prize* — HARRY LEBARON SAMPSON (Junior).*Second Prize* — GUY ANDREWS HAM (Junior).*Rollins — Oratory — Juniors, Sophomores, and Freshmen.**First Prize* — ERNEST BRADLEY WATSON (Freshman).*Second Prize* — GUY ANDREWS HAM (Junior).*Third Prize* — ROBERT FRENCH LEAVENS (Sophomore).*Spalding — Mechanical Drawing — Juniors, Chandler Scientific Course.**First Prize* — EDGAR RANDAL CATE.*Second Prize* — CLARENCE ERWIN PADDOCK.*Jesup — Botany — Seniors and Juniors.*

SENIORS — CHARLES PRATT GRAHAM.

JUNIORS — *First Prize* — FREDERICK WARREN JENKINS.*Second Prize* — WILLIAM EDWARD CLARK, JR.*Andrews — Free-hand Drawing — Freshman, Chandler Scientific Course.**First Prize* — HERBERT CARROLL ADAMS.*Second Prize* — FRANCIS BENNETT RILEY.

DEGREES CONFERRED IN COURSE

BACHELORS OF ARTS

Abbott, Alson Morgan
Abbott, Ernest Albert
‡Atwood, William Thompson
Baldwin, Edward Grout
Barstow, Elmer Williams
†Beal, Kenneth
Benezet, Louis Paul
Brown, Nelson Pierce
Chase, Theodore Woolsey
Clark, George Gallup
Corey, Guy Edminston
Croker, Robert Edward
Cushman, Charles Elliot
Dearborn, Henry Hale
Dickey, Maurice Woodburn
Drew, Pitt Fessenden
Eastman, Walter Roy
Edwards, Joseph Henry
Folsom, Charles Albert
Foss, Walter Andrew
Fraser, William Murdock
Fuller, Montie John Baker
Gannon, Joseph William
‡Gerould, Gordon Hall
Hardy, Horace Dexter
Hawkes, Ralph Wilson
†Heywood, Augustine Ledru
Hoban, Owen Albert

Hobbs, Joseph Wilson
Hodgkins, Willis Bradlee
Hopkins, Arthur Warren
Hyatt, Willard Isaac
Jordan, Wesley William
Joy, Clarence Lovell
Locke, Fred Ford
Lynch, Theobald Andrew
Martin, Leon Alonzo
Miller, Herbert Adolphus
Musgrove, Frank Abbott
Nye, Edward Lucius
Parker, David Woodbury
‡Pearl, Raymond
*Richardson, James Parmelee
Rogers, Herbert Spencer
Rounds, George Munroe
Rowe, Robert Gordon
Sanborn, Frederick Rodney
Sargeant, Moses Motley
Sewall, Millard Freeman
Sturtevant, Charles Chase
‡Surrey, Frank Miller
Tootell, Albert Ballard
Wiggin, Arthur Dean
Willard, Harley Richard
Woodman, Leon Elmer

Burnham, Silas Henry, '74
Somers, Warrington, '77

Barrows, Malcolm Dana, '91
Chandler, Edward Dunham, '98

* Summa cum laude.

† Magna cum laude.

‡ Cum laude.

BACHELORS OF LETTERS

Asakawa, Kanichi	Evans, George Hill
Berger, Henry John	Ford, Daniel
Bonney, Charles Walter	French, Harold Oscar
Boston, Albert Warren	Graham, Charles Pratt
Brown, Arthur Hayward	Ladd, Harry
Carson, Philip Worcester	Lane, Peter Henry
Chase, Hawley Barnard	Prescott, George James
Child, James Dwight	Silver, Ernest Leroy
Collar, Herbert Coe	†Varney, Lucius Everett
Donahue, Charles Henry	Wason, Harry Alexander
†Eastman, Earl	Woodward, Walter Carleton

Perkins, Elliott Lufkin, '98

BACHELORS OF SCIENCE

Barney, James Leonard	Leavitt, Alvin Benton
Drake, Percy Greenough	Miller, Charles O, Jr.
French, John McQuesten	Oakes, Luther Stevens
Galusha, Albert Leet	Osgood, Paul Moody
Greenwood, Albert Henry	Sanborn, John Leonard
Hartley, Joseph Henry	Skinner, Edward Raymond
Huckins, George Laurie	Sleeper, Alvah Guy
Hutchinson, William Loveland	Smith, Samuel Justin
Hyatt, Edwin Arnold	Wardle, Edward Beaumont
Irving, Arthur Pearl	Watson, Herbert Leslie
Johnston, Robert Philbrick	Whittier, Thomas Tupper
Kendall, Warren Cleaveland	Wilder, Ralph Spencer
Kimball, Arthur Elwin	Winchester, Philip Harold

Mason, Owen Roberts, '74

McKenzie, Alexander Anderson, '91

† Magna cum laude.

DOCTORS OF MEDICINE

Bakatel, Roy Vincent	Lord, Charles Edward Dimmock,
Beckford, Henry Sheed	A.B.
Berwick, James Roderick	Miller, Samuel Osgood
Brown, Frederick Nathan	Parker, Fred Eugene, A.B.
Chesley, Verner Lewis	Pease, Charles Wood
DeGross, John Henry	Pratt, Harry Sumner
Fernald, Guy Goodwin, A.M.	Robinson, Fred Israel
Healy, Thomas Raymond	Rowe, Arthur James
Hertzberg, George Robert Rein-	Rowe, Walter Cilley
hold	Schereschewsky, Joseph Williams,
Hoitt, George Barnard	A.B.
Jenness, Burt Franklin	Stevens, John Frederick
Knight, Howard Webster	Tuxbury, Fred Peaslee, A.M.
Landman, Elbert Alonzo	Work, Manly William

HONORARY DEGREES

MASTERS OF ARTS

John Barrett (1889)	Boyd Bradshaw Jones
Henry White Cannon	Francis Wayland Qua

DOCTOR OF LETTERS

Richard Hovey (1885)

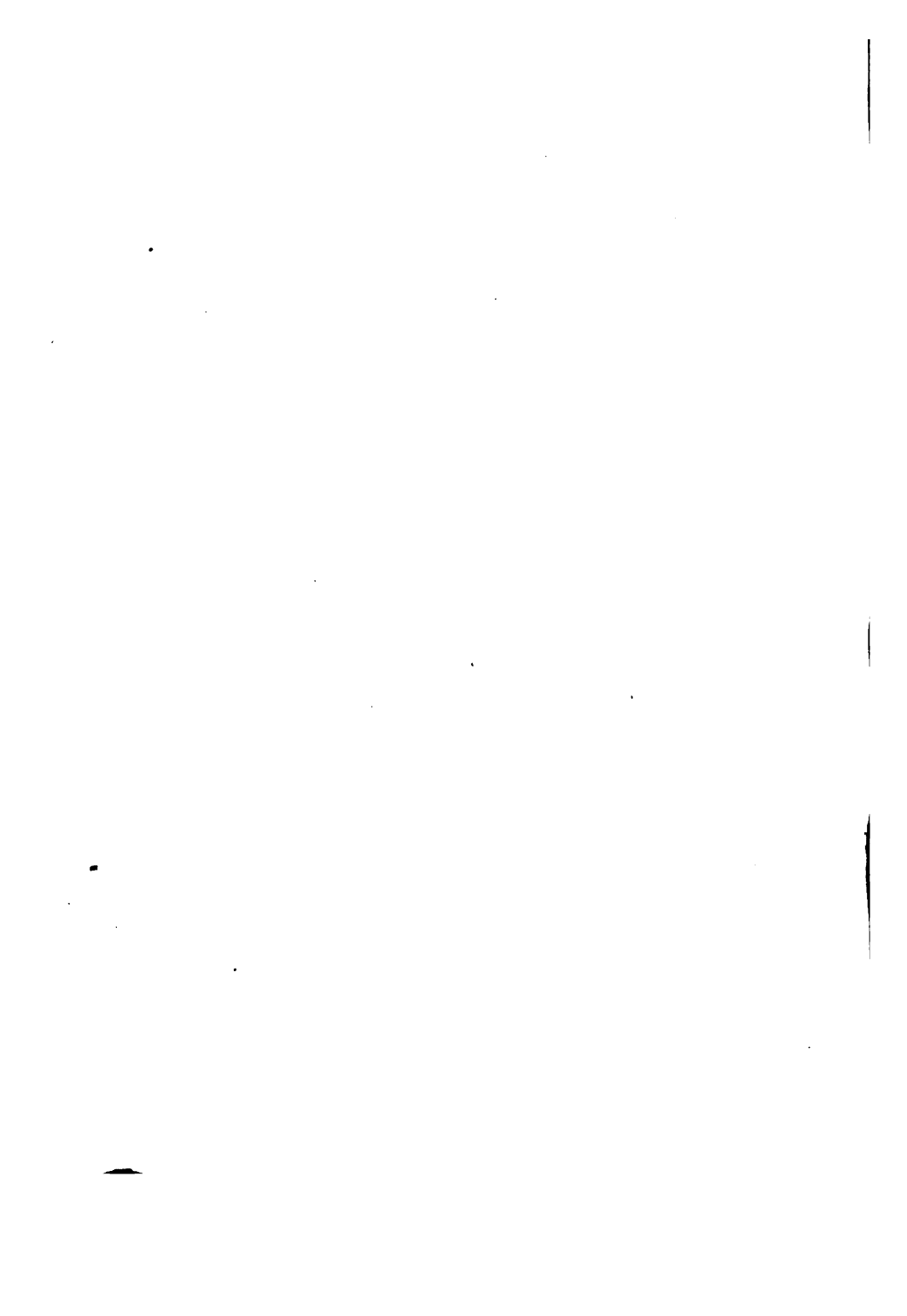
DOCTORS OF DIVINITY

William Alfred Bartlett (1882)
Lucien Haskell Frary (1866)

DOCTORS OF LAWS

William Nathaniel Cohen (1879)
George Harris (Amherst College, 1866)

DARTMOUTH COLLEGE



FACULTY

WILLIAM JEWETT TUCKER, PRESIDENT

JOHN KING LORD, ACTING PRESIDENT OF THE FACULTY IN
ABSENCE OF THE PRESIDENT.

CHARLES FRANKLIN EMERSON, DEAN OF THE FACULTY.

CHARLES HENRY HITCHCOCK, *Hall Professor of Geology
and Mineralogy.*

GEORGE PUTNAM HUNTINGTON, *Instructor in Hebrew.*

GABRIEL CAMPBELL, *Stone Professor of Intellectual and
Moral Philosophy.*

JOHN KING LORD, *Daniel Webster Professor of Latin.*

FRANK ASBURY SHERMAN, *Professor of Mathematics on
the Chandler Foundation.*

CHARLES FRANCIS RICHARDSON, *Winkley Professor of
English.*

MARVIN DAVIS BISBEE, *Librarian and Professor of Bibliog-
raphy.*

THOMAS WILSON DORR WORTHEN, *Cheney Professor of
Mathematics.*

EDWIN JULIUS BARTLETT, *New Hampshire Professor of
Chemistry.*

JAMES FAIRBANKS COLBY, *Parker Professor of Law and
Political Science.*

JOHN VOSE HAZEN, *Woodman Professor of Civil Engineering
and Graphics on the Chandler Foundation.*

CHARLES DARWIN ADAMS, *Lawrence Professor of Greek.*

JUSTIN HARVEY SMITH, *Professor of Modern History.*

DAVID COLLIN WELLS, *Professor of Sociology.*

WILLIAM PATTEN, *Professor of Zoölogy.*

GEORGE DANA LORD, *Associate Professor of Greek and of Greek Archæology.*

HERBERT DARLING FOSTER, *Professor of History.*

EDWIN BRANT FROST, *Instructor in Astronomy.*

FRANK GARDNER MOORE, *Associate Professor of Latin and of Roman Archæology.*

WARREN AUSTIN ADAMS, *Assistant Professor of German.*

FRED PARKER EMERY, *Willard Professor of Rhetoric and Oratory.*

ERNEST FOX NICHOLS, *Professor of Physics and Director of Wilder Laboratory.*

ALBERT CUSHING CREHORE, *Appleton Assistant Professor of Physics.* (On leave of absence.)

JOHN HIRAM GEROULD, *Instructor in Zoölogy.*

LOUIS HENRY DOW, *Assistant Professor of French.*

HARRY EDWIN BURTON, *Assistant Professor of Latin.*

JOHN HARVEY PROCTOR, *Assistant in Mathematics.*

FRANK HAIGH DIXON, *Assistant Professor of Economics.*

WILBUR CORTEZ ABBOTT, *Assistant Professor of History.*

GORDON FERRIE HULL, *Assistant Professor of Physics.*

CHARLES HENRY RICHARDSON, *Instructor in Chemistry and Mineralogy.*

ELMER HOWARD CARLETON, *Instructor in Physical Culture and Director of the Gymnasium.*

ERNEST FELIX LANGLEY, *Instructor in French.*

ASHLEY KINGSLEY HARDY, *Instructor in German.*

GEORGE THOMAS MOORE, *Instructor in Botany.*

MURRAY ANTHONY POTTER, *Assistant Professor of French.*

HERMAN HARRELL HORNE, *Instructor in Philosophy.*

CRAVEN LAYCOCK, *Instructor in the Art of Public Speaking.*

JOHN MERRILL POOR, *Instructor in Mathematics and Astronomy.*

HENRY BARRETT HUNTINGTON, *Instructor in English.*

WILLIAM KILBORNE STEWART, *Instructor in German.*

JOSEPH STANLEY WILL, *Instructor in French.*

GEORGE HERBERT PALMER, LL.D. (Harvard University),
Lecturer on Ethics.

STANDING COMMITTEES OF THE FACULTY

1899-1900

ADMINISTRATION — The President, the Acting President, the Dean, Professor Richardson (Senior class-officer), Professor Bartlett, (Junior class-officer), Professor Emery (Sophomore class-officer), Professor Adams (Freshman class-officer).

INSTRUCTION — Professors Wells (Chairman), Hitchcock, Hazen, Dow, Burton, the Dean (*ex officio*).

ADMISSION — Professors C. D. Adams (Chairman), Sherman, Foster, W. A. Adams, Nichols, the Dean (*ex officio*).

LIBRARY — Professors Bisbee (Chairman), Worthen, G. D. Lord, Foster, Emery.

SCHOLARSHIPS — The President, the Dean, and the Class-officers.

ATHLETICS — Professors Worthen (Chairman), Patten, Dr. Carleton.

ORGANIZATIONS, OTHER THAN ATHLETICS — Professors G. D. Lord (Chairman), Dixon, Mr. Laycock.

GRADUATE INSTRUCTION — Professors Colby (Chairman), Campbell, J. K. Lord, Wells, Patten.

A General Faculty meeting is held on alternate Monday afternoons at 4.30 o'clock.

The committee on Administration meets every Friday afternoon at 5 o'clock.

COURSES OF INSTRUCTION

The College offers three parallel Courses of instruction, each requiring four years of study :

The Classical Course, leading to the degree of B.A.

The Latin-Scientific Course, leading to the degree of B.L.

The Chandler Scientific Course, leading to the degree of B.S.

The studies in each of the three Courses are mainly prescribed throughout Freshman year.

The Classical Course comprises during this period Greek, Latin, Mathematics, either French or German, and English.

The Latin-Scientific Course is the same as the Classical, except that advanced work in French or German is prescribed in place of Greek.

The Chandler Scientific Course substitutes for Greek and Latin additional work in Mathematics, Science, Modern Languages, and Graphics.

After Freshman year the prescribed studies are the same in each of the three Courses, and include History, Physics, Economics, English Literature, Philosophy, and Law.

Elective studies are open to all students of the three Courses alike, and each student may take any elective offered, provided that his previous work has prepared him for its pursuit.

Members of the Chandler Scientific Course may substitute for the elective studies of Senior year, the work of the first year in the Thayer School of Civil Engineering. They may be candidates for the degree of B.S. with their Class, and after a second year of work in the Thayer School they may receive the degree of C.E. The conditions for such an election will be found under the Thayer School of Civil Engineering.

The Amos Tuck School of Administration and Finance is open to members of the Senior Class under the following conditions :— Students of approved ability, of three years undergraduate standing,

who have taken the prescribed work in History, Economics and Political Science, and one elective in each of the departments of History, of Economics, and of Sociology, together with two years of prescribed and elective work in English Composition and Argumentation, and the elementary courses in two of the three languages — German, French, and Spanish — may elect the first year course in the Tuck School for their work of Senior year. At the close of the year, they may formally graduate from the College with the Bachelor's degree for which they entered. After a year of graduate study in the Tuck School, they become eligible to the certification of that School.

Students who intend to enter the Medical Department may receive credit for the first year of the medical course by electing such studies as are prescribed for that year, and by registering in the Medical Department at the opening of Senior year. The conditions for such an election will be found under the Medical School.

REQUIREMENTS FOR ADMISSION

All candidates for admission to college must offer satisfactory testimonials of good moral character; and those who have been members of other colleges must present certificates of regular dismission.

Candidates for admission to the Freshman class in the Classical Course must present satisfactory qualifications in the following subjects, according to specifications given under each subject: English, History I, Mathematics I, Latin, Greek.

Candidates for admission to the Freshman class in the Latin-Scientific Course must present satisfactory qualifications in the following subjects, according to specifications given under each subject: English, History I *or* II, Mathematics I, Latin, French *or* German, and *one* of the three sciences, Chemistry, Physics, Biology.

Candidates for admission to the Freshman class in the Chandler Scientific Course must present satisfactory qualifications in the following subjects, according to specifications given under each subject: English, History I *or* II, Mathematics I and II, French *or* German,

and *two* of the three sciences, Chemistry, Physics, Biology. In place of Mathematics II, candidates may present two years of a second modern language, or of Latin.

SUBJECTS WITH SPECIFICATIONS

ENGLISH

Two sets of books are prescribed for preparation in English, one for reading, the other for more careful study. No candidate will be accepted in English whose work is notably deficient in point of spelling, punctuation, idiom, or division into paragraphs. The requirement consists of two parts.

I. Reading — A certain number of books will be set for reading. The candidate will be required to present evidence of a general knowledge of the subject-matter, and be able to answer simple questions on the lives of the authors; he must also show the ability to write a paragraph or two on each of several topics, to be chosen by the candidate from a considerable number — perhaps ten or fifteen — set before him. The treatment of these topics is designed to test the candidate's power of clear and accurate expression, and will call for only a general knowledge of the substance of the books. In place of a part or the whole of this test, the candidate may be allowed to present an exercise book, properly certified by his instructor, containing compositions or other written work done in connection with the reading of the books.

The books set for this part of the requirement will be :

In 1900, Dryden's *Palamon and Arcite*; Pope's *Iliad*, Books i, vi, xxii, and xxiv; The Sir Roger de Coverley Papers in *The Spectator*; Goldsmith's *The Vicar of Wakefield*; De Quincey's *The Flight of a Tartar Tribe*; Tennyson's *The Princess*; Scott's *Ivanhoe*; Cooper's *Last of the Mohicans*.

In 1901, 1902, Shakespeare's *The Merchant of Venice*; Pope's *Iliad*, Books i, vi, xxii, and xxiv; The Sir Roger de Coverley Papers in *The Spectator*; Goldsmith's *The Vicar of Wakefield*; Coleridge's *The Ancient Mariner*; Scott's *Ivanhoe*; Cooper's *The Last of the Mohicans*; Tennyson's *The Princess*; Lowell's *The Vision of Sir Launfal*; George Eliot's *Silas Marner*.

In 1903, 1904, 1905. — Shakespeare's *The Merchant of Venice* and *Julius Cæsar*; The Sir Roger de Coverley Papers in *The Spectator*; Goldsmith's *The Vicar of Wakefield*; Coleridge's *The Ancient Mariner*; Scott's *Ivanhoe*; Carlyle's *Essay on Burns*; Tennyson's *The Princess*; Lowell's *The Vision of Sir Launfal*; George Eliot's *Silas Marner*.

II. Study and Practice. — This part of the requirement presupposes the thorough study of each of the works named below. The test will be upon subject-matter, form, and structure.

The books set for this part of the requirement will be:

In 1900. — Shakespeare's *Macbeth*; Milton's *Paradise Lost*, Books i and ii; Burke's *Speech on Conciliation with America*; Macaulay's *Essays on Milton and Addison*.

In 1901, 1902. — Shakespeare's *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso*; Burke's *Speech on Conciliation with America*; Macaulay's *Essays on Milton and Addison*.

In 1903, 1904, 1905. — Shakespeare's *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso*; Burke's *Speech on Conciliation with America*; Macaulay's *Essays on Milton and Addison*.

HISTORY (including Historical Geography)

Either of the two following groups, each including two fields of historical study: — [But candidates for classical course must present I].

I. *Greek and Roman History*. — (a) Greek History to the death of Alexander, with due reference to Greek life, literature, and art. (b) Roman History to the accession of Commodus, with due reference to literature and government.

II. *English and American History*. — (a) English History, with due reference to social and political development. (b) American History, with the elements of Civil Government.

For preparation in each of the two historical fields presented (a) or (b) a course of study equivalent to at least three lessons a week for one year (or five recitations for one year for the two fields together) will be necessary.

The preparation and examination call for: (1) such general knowledge of each field as may be acquired from the study of an accurate text-book of not less than 300 pages, supplemented by suitable parallel

readings amounting to not less than 300 pages; (2) geographical knowledge tested by the location of places, movements, or territorial changes on an outline map (by physical features wherever possible, as well as by political features); (3) comparisons between historical characters, periods, or events; (4) in general the exercise of judgment and the power to combine results of reading in orderly fashion. The last two requirements must be met in part by some forms of written work.

The following list will indicate the nature and amount of work required in text-books and supplementary readings.

Greek History — *Either* (a) Oman's or Myers' History of Greece, with additional reading,

or (b) Fyffe's Greece, Sheldon's Studies, and 400 pages additional reading,

or (c) Fyffe; Curtius' History of Greece, Book i, Ch. i; Book iii, Ch. iii; and *either* (1) Plutarch's Lives of Aristides and Demosthenes, *or* (2) Curtius' History of Greece, Book ii, Ch. iv.

Roman History — *Either* (a) Allen's Short History of the Roman People, and 300 pages additional reading,

or (b) both Creighton's Rome and Sheldon's Studies, and 400 pages additional reading,

or (c) Creighton's Rome; Tighe's Development of the Roman Constitution; and *either* (1) Froude's Cæsar, Ch. xiv, xxvi-xxviii, Plutarch's Lives of Cato the Elder and Cicero, and the comparisons of Cato with Aristides, and of Cicero with Demosthenes; *or* (2) Beesly's The Gracchi, Marius, and Sulla.

English History — *Either* Higginson and Channing's English History for Americans, or Ransome's Short History of England, *or* Montgomery's Leading Facts of English History, *or* Gardiner's English History for Schools, *or* Gardiner's Student's History, each with at least 300 pages additional reading, which may be selected from the following list:—Guest's Lectures on English History, Green's Short History of the English People, Ch. i and Ch. vi, sections iii-vii, Freeman's Short History of the Norman Conquest, Mrs. J. R. Green's Henry II, Creighton's Age of Elizabeth, Gardiner's Puritan Revolution, Macaulay's History of England, Ch. iii, Woodburn's "Lecky's American Revolution," Seeley's Expansion of England.

American History—Either (a) Channing's Students' History of the United States or Johnston's History of the United States for Schools, each with 200 pages additional reading,

or (b) Higginson's Young Folks' History of the United States, through Ch. xvi, together with 200 pages additional reading and either (1) Channing's United States 1765-1865, or (2) Johnston, from beginning of Period V,

or (c) Higginson; Lodge's English Colonies, Ch. ii and xxii; Morse's John Quincy Adams, Ch. ii and iii; Josiah Quincy's Figures of the Past.

MATHEMATICS I

Thorough drill in Arithmetic is of vital importance in the study of Mathematics. Facility in the use of integral and fractional numbers should be acquired in the lower grades and retained by the use of numerical examples through the high school course. Short processes and decimals including the metric system should be used habitually. It is assumed that this fundamental work has been done.

Algebra—The fundamental operations, simple equations with applications to problems involving two or more unknown quantities, the principles of factoring, involution and evolution applied to expressions containing fractional and negative exponents, radicals including imaginaries and radical equations, quadratic equations with applications to problems involving two unknown quantities.

Plane Geometry—The ordinary propositions relating to rectilinear figures, the measure of angles, proportion and similar figures, regular polygons, circles, areas, constructions and computations involving applications of the more important propositions, original propositions.

MATHEMATICS II

Algebra—including equations in quadratic form, inequalities, indeterminate equations, proportion, variation, the three progressions, binomial formula for any exponent, convergency of series, and undetermined coefficients, as treated in a college algebra.

Geometry—Solid Geometry, the ordinary propositions relating to right lines and planes in space, to the measurements of prisms, cylinders, pyramids, cones, frustums, the sphere and portions of its surface and volume, the solution of problems involving the computation and comparison of the surfaces and volumes of the cylinder, cone, frustum of cone, sphere, and their principal inscribed and circumscribed solids.

Trigonometry—Plane Trigonometry, the theory of the functions and their relations so far as to furnish formulae for the computation of the tables and the solution of right and oblique triangles, the use of logarithmic and trigonometric tables in the solution of problems.

LATIN

A knowledge of the Latin language sufficient to enable the student—

I. To translate at sight passages of Latin prose and verse, and to answer questions on ordinary forms, constructions, and idioms, and on prosody.

II. To pass a thorough examination on Cicero's speeches against Catiline, ii, iii, and iv, directed to testing the candidate's mastery of ordinary forms, constructions, and idioms of the language.

III. To translate into Latin prose a passage of connected English narrative, based on some portion of the Latin prose works usually read in preparation for college, and limited to the subject-matter of those works.

Careful attention should be given from the beginning to the correct pronunciation of Latin words, both as to quantity and to syllabication. Such pronunciation greatly aids the study of prosody, and is indispensable to the correct reading of Latin poetry.

The following course of study in Latin is suggested as adequate to secure the proficiency desired :

FIRST YEAR — FIVE LESSONS A WEEK

First and Second Terms — Introductory Lessons.

Third Term — Easy reading, such as Fables, Viri Romæ, Eutropius, etc., (15 to 25 pages¹). Practice in reading at sight² and in writing Latin.³ Systematic study of grammar begun.

SECOND YEAR — FIVE LESSONS A WEEK

First Term — Easy reading continued (15 to 25 pages). Nepos or Cæsar (15 to 20 pages⁴).

Second Term — Cæsar (30 to 40 pages⁵).

Third Term — Ovid's Metamorphoses (750 to 1000 lines).

Practice in reading at sight and in writing Latin, with systematic study of grammar throughout the year.

THIRD YEAR — FIVE LESSONS A WEEK

First Term — Vergil's Æneid (750 to 1000 lines⁶). Cicero, against Catiline, i and ii. Practice in reading at sight and in writing Latin. Grammar.

Second and Third Terms — Cicero, against Catiline, iii and iv. Cæsar (45 to 60 pages), and Ovid (500 to 750 lines), mainly for practice in reading at sight. Thorough grammatical review and practice in writing Latin, both based on study of Cicero, against Catiline, ii-iv.

¹ Teubner pages are the standard.

² "Reading at sight" is used as a convenient phrase to denote the reading of the Latin text, with understanding of the sense, independently of or preliminary to the formal rendering into idiomatic English; and by "practice in reading at sight" is meant not merely the translation of unprepared passages in class, but also the inculcation of correct methods of reading, to be used by the candidate in preparing assigned passages. Reading the Latin aloud is an indispensable part of this practice.

³ Writing Latin throughout the course should be based upon the prose authors read, and should advance from simple sentences to connected passages.

⁴ E. g., B. G. ii (17 1-2 pages).

⁵ E. g., B. G. i (33 1-2 pages) or iii and iv (34 pages).

⁶ Book i contains 756 lines.

FOURTH YEAR — FIVE LESSONS A WEEK

Cicero (45¹ to 60 pages). Vergil (4000² to 6000 lines).³ Practice in reading at sight and in writing Latin. Grammar.

Candidates for admission by certificate must present certificates covering Cicero's speeches against Catiline, and at least 110 Teubner pages of other Latin prose, and 6000 lines of poetry.

GREEK

A knowledge of the Greek language sufficient to enable the student —

I. To translate at sight passages of Attic prose and of Homer, and to answer questions on ordinary forms, constructions, and idioms, and on prosody.

II. To pass a thorough examination on Xenophon's *Anabasis*, Book ii, directed to testing the candidate's mastery of ordinary forms, constructions, and idioms of the language.

III. To translate into Greek prose a passage of connected English narrative, based on some portion of the Greek prose works usually read in preparation for college, and limited to the subject-matter of those works.

The following course of study in Greek is suggested as adequate to secure the proficiency desired:

FIRST YEAR — FIVE LESSONS A WEEK

First and Second Terms — Introductory Lessons.

Third Term — Xenophon's *Anabasis* (20 to 30 pages). Practice in reading at sight and in writing Greek. Systematic study of grammar begun.

¹ *E. g.*, pro Archia, de lege Manilia, and pro Marcello (46 pages).

² Books ii–vi of the *Æneid* contain 3999 lines.

³ Prosody should be taken up in connection with the study of Latin poetry, and in reading metrically, constant attention should be given both to the rhythm and the thought.

SECOND YEAR — FIVE LESSONS A WEEK

Xenophon's *Anabasis* (continued), either alone or with other Attic prose (85 to 120 pages). Practice in reading at sight. Systematic study of grammar. Thorough grammatical review and practice in writing Greek, both based on Books i and ii of the *Anabasis*.¹

THIRD YEAR — FIVE LESSONS A WEEK

Homer (2500² to 5000³ lines). Prosody should be taken up in connection with the study of Homer, and in reading metrically, constant attention should be given both to the rhythm and the thought. Attic prose (25 to 40 pages⁴) with practice in writing Greek. Grammar. Practice in reading at sight.

Candidates for admission by certificate must present certificates covering Books i and ii of Xenophon's *Anabasis*, and at least 60 Teubner pages of other Attic prose, and 2500 lines of Homer.

FRENCH

I. A thorough knowledge of accidence and a familiarity with the essentials of French syntax.

II. The ability to translate at sight ordinary French prose into simple, idiomatic English.

III. The ability to translate into French a connected passage of English based on the text read.

¹ Writing Greek throughout the course should be based upon the prose authors read, and should advance from simple sentences to connected passages.

² *E. g.*, Iliad i-iv (omitting ii, 494 — end) and vi. The increase in the requirements in Homer from three books to five is made on the assumption that the attention paid to reading at sight will enable the candidate to advance more rapidly.

³ *E. g.*, Iliad i-iii (omitting ii, 494 — end) and vi-viii.

⁴ Making a total of 130-190 pages of Attic prose, equivalent to four to six books of the *Anabasis*. Good equivalents for a part of the *Anabasis* will be found in Xenophon's *Hellenica*, *Cyropædia*, *Œconomicus*, and in the *Orations of Lysias*.

IV. The ability to write ordinary French at dictation.

V. The ability to pronounce French well.

The following course of study is suggested as adequate to secure the proficiency desired :

FIRST YEAR — FIVE LESSONS A WEEK

Drill in pronunciation. The rudiments of grammar, including the conjugation of regular verbs and of the more frequent irregular verbs ; the inflection of nouns and adjectives (except the rare forms) ; the uses of articles, pronouns, common adverbs, prepositions, and conjunctions ; the order of words in the sentence, and the elementary rules of syntax. The translation into French of simple English sentences illustrating the common forms and principles of grammar. The reading of 300 duodecimo pages of simple French prose, with constant practice in turning into French easy variations of the text read. Oral translation and writing of French at slow dictation.

The following texts are suggested as suitable reading for the first year : Mérimée's *Colomba*, Halévy's *L'Abbé Constantin*, Jules Verne's *Le Tour du monde en quatre-vingts jours*, About's *Le Roi des montagnes*, Lamartine's *Jeanne d'Arc*, Labiche and Martin's *Le Voyage de M. Perrichon*, Malot's *Sans Famille*, Legouvé and Labiche's *La Cigale chez les fourmis*, Erckmann-Chatrian's *L'Histoire d'un paysan* and *Le Conscriit de 1813*, Dumas' *La Tulipe noire*.

SECOND YEAR — FIVE LESSONS A WEEK

By this time the pupil should be familiar with accidence, and the grammar work should be confined to the study of syntax, with composition exercises illustrating its essential rules.

About 550-600 duodecimo pages of French prose of ordinary difficulty should be read, and the pupil should be drilled in pronunciation, in oral and written translations into French of variations of the text read, in oral translation and writing of French from dictation, and, in addition, he should be required to give French paraphrases and abstracts of portions of the reading matter.

The following texts are suggested as suitable reading for the second year : Loti's *Pêcheur d'Islande* ; Augier's *Le Gendre de M. Poirier*, Balzac's *Le Curé de Tours*, Coppée's and Daudet's *Stories*, Molière's

L'Avare and Le Bourgeois gentilhomme, Sandeau's Mademoiselle de la Seiglière, Vigny's La Canne de jonc; Sand's La Mare au diable and La petite Fadette.

GERMAN

I. Ability to pronounce German well.

II. Ability to translate *at sight* a passage of German *prose* of *ordinary difficulty*.

III. Ability to put into German a connected passage of simple English *paraphrased* from a given German text, or to turn simple English sentences into German without a model.

IV. Ability to answer any *grammatical* questions relating to *usual* forms and *essential* principles of the language, including syntax and word-formation.

V. Ability to translate, and to explain, if explanation is called for, a passage of *classical* literature taken from some text previously studied.

The following course of study in German is suggested as adequate to secure the proficiency desired :

FIRST YEAR — FIVE LESSONS A WEEK

(1) *Pronunciation* — Careful attention should be given to the acquisition of a correct pronunciation.

The imitation of the teacher's pronunciation will be the chief factor in the problem; dictation and a knowledge of the rudiments of phonetics will be found very helpful. The attention of the teacher is called to Hempl's German Orthography and Phonology, and to Grandgent's German and English Sounds.

(2) *Memorizing and frequent repetition of easy colloquial sentences* (with variations).

Object — to develop feeling for the language.

(3) *Rudiments of Grammar* (*thoroughly* learned and studied with *exercises*).

Declension of articles, nouns (taken from the language of every-day life), adjectives, pronouns. Comparison of adjectives. Auxiliary verbs (of tense and mood). Weak verbs, more usual strong verbs, more usual prepositions and the cases they govern, more usual conjunctions. Sentence order. Elementary syntax.

Joynes-Meissner German Grammar recommended.

- (4) *Reading* (narrative prose with some poetry), 150 pages. *either* (a) a Reader with graduated selections followed by short stories, or (b) Märchen and short stories in graduated texts. Storm's *Immensee*, Zschokke's *Der zerbrochene Krug* (edition Joynes) *Einer Musz Heiraten* and similar stories are recommended.
- (5) *Paraphrasing*—Constant practice in translating into German *easy variations* upon sentences in the reading lesson.

SECOND YEAR — FIVE LESSONS A WEEK

- (1) *Reading* (narrative prose chiefly, a comedy and one classic), 250–300 pages.

The following course is suggested:—

(a) Short stories—Heyse: *L'Arrabbiata* (edition Lenz); Riehl: *Vierzehn Nothelfer*. (b) Selection from historical prose—in Hoffmann's *Historische Erzählungen* the selection *Der deutsch-französische Krieg* (edition Beresford-Webb). (c) A comedy—Benedix: *Dr. Wespe* or *Der Prozesz*. (d) One classic—Goethe: *Hermann und Dorothea* (edition Thomas). (e) 50 pages of Freytag's prose.

(2) *Paraphrasing*—Constant practice in variations upon texts read.

(3) *Grammar*—(a) Drill upon essentials (continued). (b) Enlargement of grammatical knowledge.

(4) *Word-formation*—Rudiments.

CHEMISTRY

Acquaintance by laboratory work with elementary processes and with the properties of substances common in Chemistry; familiarity with the chemical notation in its experimental and arithmetical meaning, including the ability to solve simple problems based on the relations expressed by formulas and equations; understanding and ability to use correctly the ordinary terms of Descriptive Chemistry. Bartlett's *Laboratory Exercises*, Parts i–v (exclusive of Class i, Part ii), or equivalent. A certified note-book of laboratory work must be presented at the time of examination. The candidate should have had in addition recitations based upon any good elementary descriptive text-book through the non-metallic and metallic elements.

To meet the above requirement, at least 110 hours of elementary chemistry are necessary, one-half laboratory work, illustrating the preparation and the properties of the substances ordinarily treated in elementary chemistry. Qualitative Analysis will not be accepted as an equivalent for the laboratory work prescribed.

PHYSICS

The equivalent of at least one hundred and ten one-hour exercises, of which as many as forty should be practical exercises in the laboratory. The student is expected, in the time devoted to the laboratory work, to perform at least forty experiments, and to have kept a neat and orderly record of the same in a note-book, described in his own words. This note-book should bear the certification of the instructor and be presented for inspection at the time of the entrance examinations to College.

The student should be taught, as far as possible, to apply the simpler principles of Algebra and Geometry to the solution of practical problems in Physics.

Any one of the following texts or manuals may be recommended for use in secondary schools preparing students for Dartmouth College: Elements of Physics, Carhart and Chute; Elements of Physics, Crew; A Text-Book of Physics, Hall and Bergen; Outlines of Physics, Nichols; Elements of Physics, Gage.

BIOLOGY

I. *Zoölogy* — The equivalent of fifty one-hour exercises, consisting mainly of laboratory work in the study of the structure and life-histories of representative animals.

The candidate will be required to present a certified note-book, containing complete records of the conditions under which his observations were made, as well as the observations themselves; also sketches of all the animals, or their organs, that have been studied.

No work necessitating the use of a compound microscope is required.

Work like that outlined in Needham's Elementary Lessons in Zoölogy will be acceptable.

II. *Botany* — The equivalent of fifty one-hour exercises, consisting mainly of laboratory work on the natural history of plants.

The candidate must present a note-book containing the notes and drawings he has made, and bearing the endorsement of his teacher certifying that the book is a true record of the pupil's own observations. The presentation of an herbarium is not required, and no weight will be given this evidence of work done unless it illustrates some definite problem in plant relationship.

No work necessitating the use of a compound microscope is required.

Bergen's *Elements of Botany* or Spaulding's *Introduction to Botany*. If Gray's lessons are used, they must be supplemented with additional physiology and the use of some such book as Coulter's *Plant Relations*.

METHODS OF ADMISSION

Admission to the Freshman class in College is gained either by examination or by certificate.

ADMISSION BY EXAMINATION

Candidates in 1900 will present themselves with their credentials at the Dean's office at one of the following hours, for registration and admission to the examinations:

On Thursday, June 21, at 8.30 A.M. and 2.30 P.M.; on Friday, June 22, at 8.30 A.M. and 2.30 P.M.; on Saturday, June 23, at 8.30 A.M.

On Monday, September 10, at 2.30 P.M.; on Tuesday, September 11, at 8.30 A.M. and 2.30 P.M.; on Wednesday, September 12, at 8.30 A.M. and 2.30 P.M.

Examinations for admission are held in the English Room (E.), Culver Hall, as follows:

In Greek, and French or German, on Thursday, June 21, at 9 A.M., and Monday, September 10, at 3 P.M.

In History, on Thursday, June 21, at 3 P.M., and Tuesday, September 11, at 9 A.M.

In Mathematics, on Friday, June 22, at 9 A.M., and Tuesday, September 11, at 3 P.M.

In Latin and Sciences, on Friday, June 22, at 3 P.M., and Wednesday, September 12, at 9 A.M.

In English, on Saturday, June 23, at 9 A.M., and on Wednesday, September 12, at 3 P.M.

Examinations for admission to the Freshman class (but not to higher classes) will also be held on the above specified days in June, in Manchester, N. H. ; St. Johnsbury, and Bellows Falls, Vt. ; Boston (at the Chauncy Hall School), New York City, and Chicago, at places to be announced in the local newspapers or by personal notice to applicants; provided that the number of candidates for examination, preliminary or final, in any of the places named shall warrant it. All application for examinations in June at these places should be made to the Dean before June 10th.

The College is also prepared to hold an examination for admission to the Freshman class (but not to higher classes) on the above-named days in June in any city or at any school where the number of candidates for examination, preliminary or final, and the distance from other places of examination may warrant it, provided that applications for this purpose be made to the Dean before June 1st.

PRELIMINARY EXAMINATIONS

Candidates for admission to the Freshman class are allowed to take a partial examination, one year before their matriculation, on the following subjects :

Mathematics : Geometry.

Latin : 1. The translation at sight of simple prose and verse.

2. A thorough examination on Cicero's speeches against Catiline ii, iii, and iv, directed to testing the candidate's mastery of the ordinary forms, constructions, and idioms of the language ; the test to consist, in part, of writing simple Latin prose, involving the use of such words, constructions, and idioms only, as occur in the speeches prescribed.

Greek : 1. The translation at sight of simple Greek prose.

2. A thorough examination on Xenophon's *Anabasis*, Book ii, directed to testing the candidate's mastery of the ordinary forms, constructions, and idioms of the language ; the test to consist, in part, of writing simple Greek prose, involving the use of such words, constructions, and idioms only, as occur in the portion of Xenophon prescribed.

French : Grammar, including composition, and translation of works read during first year, as indicated under the requirements in French.

German : Grammar, including composition, and translation of works, as indicated under the first year requirements in German.

In this examination no condition will be imposed, and a failure in any subject will necessitate the re-examination of the candidate in the department to which that subject belongs.

Candidates who have passed the examination will receive certificates for the work done, and these certificates, when presented in the following year, but not later, will be received in place of an examination, in the subjects mentioned in them.

ADMISSION BY CERTIFICATE

In place of examinations, certificates will be received from preparatory schools which have been approved by vote of the Faculty. No school will be approved that has not an established, regular, and thorough course of preparation for college, and all schools which desire to be placed on the list of "approved schools" should send to the Dean of the Faculty for a printed form of application, containing the conditions for the approval of a school and the requirements which must be met. Approval of a school will be withdrawn whenever it appears that the work of the school does not reach the standard desired by the College. No certificate will be accepted from a private tutor or instructor.

Certificates should meet the requirements in full ; the candidate will be examined on any requirement not covered by the certificate, but if the certificate makes exceptions in more than a third of the departments of study required for admission, it will not be accepted, and the candidate will be examined on all the requirements.

Certificates must be made out on blanks furnished by the Dean of the Faculty, and it is requested that they be sent to him at the close of the school year.

MATRICULATION

After registration and the acceptance of the examination papers or certificates at the office of the Dean, and the payment of the tuition for the first semester at the office of the Treasurer, the student will receive his matriculation papers from the President of the College.

Freshmen whose attendance and scholarship are unsatisfactory during the first semester will be dropped from College at the close of the semester; this action will ordinarily be taken in the case of Freshmen who fail to make recitation standing in two or more courses, or who fail in three or more examinations, or who, having entered on conditions, show by the unsatisfactory character of their current work that they are unable to continue without further preparation. If a student admitted on certificate, and subsequently dropped from the Freshman class on account of poor scholarship, applies for readmission to College, he must pass examination in those subjects in which he failed to make a passing mark; if admitted by examination with conditions, he must remove the conditions by examination before being readmitted.

ADVANCED STANDING

Candidates for advanced standing are examined, in addition to the studies required for admission, in those which have been pursued by the class which they propose to enter, or in others equivalent to them. Certificates from schools are not accepted for studies which are offered for advanced standing.

Students from other Colleges, which require the same or equal terms of admission with Dartmouth, and which offer the same or equal courses of study, will be credited with the work for which they bring the record of full standing in their letters of transfer.

SPECIAL STUDENTS

Persons who desire to attend the lectures and recitations of particular departments only, may have that privilege, provided they give evidence that they are fully prepared to enter upon the studies of such

departments, and provided also, they represent so much general training as may entitle them to undertake college work. Students who are enrolled as members of classes, but who fail in one or more studies, are not allowed to become special students, but are required, if they remain in College, to make up the studies in which they failed, with the class below. No provision is made for partial in distinction from special students.

RESIDENT GRADUATE STUDENTS

Instructions to graduate students who wish to take courses leading to graduate degrees, may be found on page 147.

Graduates of this or any other College, desirous of pursuing their studies in residence, without reference to a degree, may attend the public lectures of the College, and use the library, laboratories, apparatus, and scientific collections, subject to such rules as the Faculty may establish.

DEPARTMENTS OF INSTRUCTION

GREEK

PROFESSOR ADAMS AND ASSOCIATE PROFESSOR LORD

Courses 3 and 8 will be first offered in 1900-1901.

Courses 5 and 6 alternate with Courses 11 and 10.

Courses 5 and 6 are given in 1899-1900.

Figures in brackets indicate number of exercises a week.

1. Plato: Apology and Crito. The life and times of Socrates will be studied with special reference to the conditions prevailing at Athens at the close of the Peloponnesian war. Weekly exercises in writing Greek to be based on the text read. Lectures on the life and the artistic products of the Greeks. First Semester, fifty-four exercises, [3].
PROFESSORS ADAMS AND LORD.

2. Homer: Odyssey, Selections. Sight reading. Study of Epic forms and syntax. Second Semester, fifty-four exercises, [3].
PROFESSORS ADAMS AND LORD.

[The order of Courses 1 and 2 will be reversed in 1900-1901.]

3. Greek Drama I. Aristophanes: The Frogs. Introduction to Attic Comedy; lectures on its relation to politics and literature. First Semester, thirty-six exercises, [2].
PROFESSOR ADAMS.

4. Greek Drama II. Sophocles: Oedipus Tyrannus. This course is designed as a general introduction to Drama. Lectures on the development of Greek Drama. Second Semester, fifty-four exercises, [3].
PROFESSORS ADAMS AND LORD.

5. Greek Drama III. Aeschylus: The Oresteia. The three dramas will be studied in part by class translation; and in part by readings and lectures by the instructor. Lectures on dramatic criticism. Themes in connection with dramatic criticism. First Semester, fifty-four exercises, [3].
PROFESSOR ADAMS.

6. Greek Drama IV. Euripides: Iphigenia among the Taurians, and Alcestis will be read. Lectures on the construction of theatres in Greece, and discussion of problems in the staging of Greek plays. Second Semester, fifty-four exercises, [3].

PROFESSOR LORD.

7 a. Greek Oratory I. Studies in the development of Greek Oratory. Lectures and exercises in rhetorical criticism. Collateral reading in the History of Greek Literature. The class will read selections from Gorgias, Isocrates, Antiphon, and Lysias. Writing Greek: exercises based on Lysias. First Semester, fifty-four exercises, [3]. [Not offered in 1900-1901.]

PROFESSOR ADAMS.

7 b. Greek Oratory II. Demosthenes: De Corona. The reading course is preceded by a careful study of the history of Greece from the close of the Peloponnesian war to the death of Alexander, with lectures upon the significance of the struggle with Philip. The oration is studied with special emphasis upon its rhetorical features. The minute study of a small portion of the text is made the basis of an introduction to textual criticism. Writing Greek: exercises based on Demosthenes. Second Semester in 1899-1900. First Semester in 1900-1901. Fifty-four exercises, [3].

PROFESSOR ADAMS.

8. Lyric Poetry. Rapid reading of selections. Lectures on the relations of Lyric poetry to contemporary life, and on the development of its types. Second Semester, thirty-six exercises, [2].

PROFESSOR LORD.

9. Greek History. Some attention will be given to the method of the most significant modern writers on Greek History, but the course is designed principally to introduce the student to the immediate study, from the sources, of Athens during the two generations following the Persian wars. Epigraphical evidence particularly will be examined. First Semester, fifty-four exercises, [3].

PROFESSOR LORD.

[Not offered in 1900-1901.]

10. Epic Poetry. History of Homeric Study. The Iliad will be read with reference to special problems, particularly theories of European production. Second Semester, fifty-four exercises, [3].

PROFESSOR LORD.

11. Greek Philosophy. Plato: *The Phædo* and Selections. Introduction to Platonism. Collateral reading in the History of Greek Philosophy. First Semester, fifty-four exercises, [3].

PROFESSOR ADAMS.

12. History of Greek Literature. Lectures upon the development of Greek Literature and its relation to the political and artistic development of the Greek people. Rapid reading of selections from some authors not included in the preceding courses. Second Semester, fifty-four exercises, [3].

PROFESSOR ADAMS.

13. Greek Language I. This course is designed for those who intend to become teachers. Parts of the Oration on the Crown are made the basis of practice in writing Greek, and of the study of particular words, idioms, and constructions, by individual assignment of topics; this special work is reported in a final thesis. Open to those only who have taken Course 7 b. First Semester, fifty-four exercises, [3].

PROFESSOR ADAMS.

14. Greek Language II. This is a continuation of Course 13, including constant practice in writing Greek and an introduction to Greek Phonetics. Giles's *Manual of Comparative Philology* will be used as a text-book. Open to those only who have taken Course 13. Second Semester, fifty-four exercises, [3].

PROFESSOR ADAMS.

15. Greek Language III. This is a continuation of Course 14, including writing Greek in translation from English Orators, and the study of Homeric forms in their historical development as traced in the preceding course. First Semester, eighteen exercises, [1].

PROFESSOR ADAMS.

17. Greek Archæology I. Introduction to the study of Architecture, Sculpture, and Painted Vases. Selections from Pausanias' *Description of Attica and Corinth* will be read. This course informs the student of the sources and the more important characteristics of the materials for Greek Archæology. Particular attention is paid to topography and architecture. Constant use is made in this course and in Course 18 of the Sullivan collection of photographs purchased by contributions from alumni. First Semester, fifty-four exercises, [3].

PROFESSOR LORD.

18. Greek Archæology II. Sculpture. Study by manuals and by lectures. Independent studies from photographs or casts are required. Second Semester, fifty-four exercises, [3].

PROFESSOR LORD.

LATIN

PROFESSOR J. K. LORD, ASSOCIATE PROFESSOR MOORE, AND
ASSISTANT PROFESSOR BURTON

Courses 7 and 7 a, 8 and 8 a, 9 and 9 a, 16 and 16 a are given
in alternate years respectively.

1. (a) Livy : Selections from Books xxi and xxii, with reading at sight. (b) Terence : Phormio. Scenic antiquities. Exercises in composition on the basis of the play. First Semester, fifty-four exercises, [3].

PROFESSORS LORD, MOORE, AND BURTON.

2. (a) Velleius Paterculus : Selections from Book ii, dealing mainly with the history of Augustus' reign, preparatory to (b) Horace : Odes. Second Semester, fifty-four exercises, [3].

PROFESSORS LORD, MOORE, AND BURTON.

3. Cicero : Letters. Catullus ; Lectures on various topics suggested by the text. First Semester, fifty-four exercises, [3].

PROFESSOR BURTON.

4. Pliny : Letters. Tibullus. Second Semester, fifty-four exercises, [3].

PROFESSOR BURTON.

5. Tacitus : Germania and Agricola. The Germania will be read as a historical document, according to a topical arrangement of the material it contains. With the Agricola will be connected a study of Roman rule in Britain. Some attention will be given to Latin composition. First Semester, thirty-six exercises, [2].

PROFESSOR MOORE.

6. Tacitus : Histories. Selections, with special reference to the style of the historian. Latin Composition. Second Semester, thirty-six exercises, [2].

PROFESSOR MOORE.

7. Cicero: Brutus. As far as possible, fragments of Roman oratory illustrative of Cicero's judgments will be read, and also passages from his other works that deal with his own theory and practice of oratory. Each student will be required to study carefully a speech of Cicero, and to prepare and to read before the class an essay upon it. Latin composition will form a part of the course. First Semester, seventy-two exercises, [4]. [1900-1901.] PROFESSOR LORD.

7 a. Latin Literature. Selections from different authors illustrating the development of the literature. Lectures will be given upon the literature and upon individual authors, and essays and reports upon subjects assigned for special study in connection with the course will be required of the students. Exercises in Latin composition. First Semester, seventy-two exercises, [4]. PROFESSOR LORD.

8. Horace: Satires and Epistles, with special reference to the social life of the times. Second Semester, fifty-four exercises, [3]. [1900-1901.] PROFESSOR LORD.

8 a. Seneca: Essays and Epistles. Second Semester, fifty-four exercises, [3]. PROFESSOR LORD.

9. Lucretius: Selections, chiefly from Books i, iii, and v of the *De Rerum Natura*. The course concerns itself rather with the original poetry of Lucretius than with his borrowed philosophy. Epicurus' teachings, however, are discussed at some length. First Semester, fifty-four exercises, [3]. PROFESSOR MOORE.

9 a. Plautus and Seneca. Several plays of Plautus will be read in the class, and in addition each student will be required to read one play by himself, and to make report upon it before the class. The *Medea* and *Phædra* of Seneca. First Semester, fifty-four exercises, [3]. [1900-1901.] PROFESSOR LORD.

10. Justinian: Institutes, with select passages from Gaius and the Digest. Second Semester, thirty-six exercises, [2]. [1900-1901.] PROFESSOR MOORE.

12. Latin Composition. A course adapted to the needs of those who intend to teach Latin. Select Colloquies of Erasmus will be read

as models for the familiar style. Original composition, mainly epistolary. Open only to those who have taken elective courses in Latin. Second Semester, eighteen exercises, [1].

PROFESSOR MOORE.

13. Latin Epigraphy I. This course aims to acquaint students with the nature and use of inscriptions, together with the means available for their study. A selection from the inscriptions of the republic, mainly to illustrate the development of the language in its formative period. First Semester, eighteen exercises, [1].

PROFESSOR BURTON.

14. Latin Epigraphy II. The reading and interpretation of inscriptions from the time of the empire, chosen with reference to their historic interest, or their bearing upon life and manners. In exceptional cases, and with the consent of the instructor, this course may be elected by students who have not taken course 13. Second Semester, eighteen exercises, [1].

PROFESSOR MOORE.

16. Roman Satire. The development of this form of literature will be considered in its various phases. The class will read selections from Merrill's *Fragments of Roman Satire* and some of the *Satires of Horace, Persius, and Juvenal*. Second Semester, thirty-six exercises, [2].

PROFESSOR BURTON.

16 a. The Topography of Rome. The course is intended primarily for those who expect to teach Latin, and is open only to those who can read Latin with facility. It will consist chiefly of lectures, illustrated by plans and photographs. Collateral reading and short papers will be required of the students. The work will include a discussion of the excavations at Pompeii. Second Semester, thirty-six exercises, [2]. [1900-1901.]

PROFESSOR BURTON.

18. Roman Archæology I. An outline of the subject, under the following heads: (*a*) the Etruscans, (*b*) Architecture, (*c*) Painting and house decoration, (*d*) Sculpture, (*e*) Mosaic, (*f*) Pottery, (*g*) Metal-working, including coins, (*h*) Gems, (*i*) Sites of archæological interest in various parts of the empire. The course aims to follow Roman art in its various branches down into the third century. Each student will be required to take some special subject for a paper,

and to read passages assigned in Pliny the Elder or Vitruvius, or certain monumental inscriptions. Second Semester, thirty-six exercises, [2].
PROFESSOR MOORE.

19. Roman Archæology II. This course begins with the age of Diocletian, follows the later stages of decline in the West, together with the new impulse from the East, and passes over from Roman art into the Romanesque. Special attention will be given to the paintings of the catacombs, to the churches of Rome and Ravenna, with their mosaics. Course 18 is not a necessary pre-requisite, nor is the use of Latin absolutely essential. But students who are able to do so will be expected to use original sources and present a thesis based upon such work. Of the other students, similar papers will be required, representing a certain acquaintance with authorities in French or German. First Semester, thirty-six exercises, [2].
PROFESSOR MOORE.

HEBREW

DR. HUNTINGTON

2. Bissell's Practical Introductory Hebrew Grammar and Exercises. Reading at sight of chapters of Genesis and Psalms. Recitations. Second Semester, fifty-four exercises, [3].

ENGLISH

PROFESSORS RICHARDSON AND EMERY AND MESSRS. LAYCOCK
AND HUNTINGTON

1. (a) English Composition and Rhetoric. An introduction to the study of Rhetoric, with the preparation and criticism of themes, and constant reference to printed examples of correct and incorrect style. (Hill's Foundations of Rhetoric and Hill's Principles of Rhetoric.) First Semester, thirty-six exercises, [2].

PROFESSOR EMERY AND MESSRS. LAYCOCK AND HUNTINGTON.

1. (b) Contemporary Writers. A series of lectures on authors of the present day, with assigned readings and written reports. First Semester, eight exercises, last eight weeks, [1].

PROFESSOR EMERY AND MESSRS. LAYCOCK AND HUNTINGTON.

2. (a) English Composition and Rhetoric. A continuation of Course 1. (Wendell's English Composition and Pearson's Freshman Composition.) Second Semester, thirty-six exercises, [2].

PROFESSOR EMERY AND MR. HUNTINGTON.

2. (b) Oratory. A course in the elements of Elocution and Oratory, with weekly declamations and orations. Second Semester, eighteen exercises, [1].

MR. LAYCOCK.

3. Argumentative Composition and Oratory. Lectures, Recitations, Briefs, and Forensics, with daily practice in the application of rhetorical and oratorical principles to argumentation. One exercise of each week is devoted to voice-building. (Baker's Principles of Argumentation.) First Semester, seventy-two exercises, [4].

MESSRS. LAYCOCK AND HUNTINGTON.

4. Argumentative Oratory. This is a continuation of Course 3, and is open only to such students as have passed in that course. It will consist of the preparation of numerous briefs and forensics for debate, and daily practice in Oratorical Argumentation. Second Semester, seventy-two exercises, [4].

MESSRS. LAYCOCK AND HUNTINGTON.

5. Advanced English Composition, with daily and fortnightly themes. This course is open to Seniors and Juniors, and to such Sophomores, who do not elect English 3, as are competent to pursue and profit by the course. First Semester, fifty-four exercises, [3].

PROFESSOR EMERY.

5. (a) Voice Culture and the History of Oratory, Lectures, Recitations, and Exercises in Voice Culture. Theses will be written and delivered before the class by the students in this course. (Hardwicke's History of Oratory and Orators.) First Semester, fifty-four exercises, [3].

MR. LAYCOCK.

6. English Criticism. The history and comparison of the various schools of criticism in England and America, with constant application of the principles of criticism to English and American writers. Daily and weekly reports on assigned readings will be required. This course is open only to such students as have passed in English 5. (Winchester's Principles of Literary Criticism.) Second Semester, fifty-four exercises, [3].

PROFESSOR EMERY.

7. English Literature. Recitations, with assignments of readings, daily illustrations from representative authors, and frequent lectures, designed to set forth the philosophy of literature, and the relation of English writers to their predecessors and contemporaries. (Brooke's English Literature.) First Semester, fifty-four exercises, [3].

PROFESSOR RICHARDSON.

8. American Literature. Lectures, recitations, and daily readings from representative authors, with discussions tending toward the development of independent critical power. (Richardson's American Poetry and Fiction.) Second Semester, fifty-four exercises, [3].

PROFESSOR RICHARDSON.

9. Old and Middle English. This course is open only to such students as have attained an average rank of 75 in all their previous English courses. (Smith's Old English Grammar; Corson's Selections from Chaucer's Canterbury Tales.) First Semester, fifty-four exercises, [3].

PROFESSOR RICHARDSON.

10. English Lyric Poetry. (Palgrave's Golden Treasury.) Second Semester, fifty-four exercises, [3].

PROFESSOR RICHARDSON.

11. The English Drama. Lectures on the history of the Drama, from the Miracle Plays to the Closing of the Theatres, with constant reading, and oral and written criticism of the plays considered. First Semester, fifty-four exercises, [3].

PROFESSOR EMERY.

12. Shakespeare. The critical and appreciative study of Shakespeare's plays, with lectures upon Shakespeare as a dramatic artist. Weekly reports upon assigned readings will be required. This course is a continuation of Course 11, and is open only to such students as have passed in that course. Second Semester, fifty-four exercises, [3].

PROFESSOR EMERY.

FRENCH

ASSISTANT PROFESSORS DOW AND POTTER AND MESSRS.
LANGLEY AND WILL

1. Elementary Course. Grammar (Edgren, Parts I and II), the translation and sight-reading of simple French (Super's Reader), and the translation into French of simple, detached English sentences, illustrating the elementary rules of grammar and the simpler rules of syntax. First Semester, fifty-four exercises, [3].

PROFESSOR DOW AND MR. WILL.

2. Continuation of Course 1. Grammar (Edgren, Part III), the translation and sight-reading of French prose (Mérimée, *Colomba*; Halévy, *l'Abbé Constantin*; About, *le Roi des montagnes*), the translation into French of connected passages of English, based on the texts read, and the slow dictation of simple French prose. Second Semester, fifty-four exercises, [3].

PROFESSOR DOW AND MR. WILL.

Courses 1 and 2 are prescribed for Freshmen in the Latin-Scientific and the Chandler Scientific Courses who do not offer French for admission to college, and for Freshmen in the Classical Course who do not elect German and who are not eligible to Courses 3 and 4. Either course may be elected also, after Freshman year, by students in the Classical Course not entitled to enter a more advanced course. A separate division, made up of students who have previously studied French, will be formed for the sake of pursuing somewhat more advanced work than that of the other divisions.

3. Advanced Course. The work comprises a careful review of the rules of syntax (Edgren's Grammar, Part III) with exercises in French composition to illustrate their application; the translation and sight-reading of French prose (Vigny, *la Canne de jonc*; France, *le Crime de Sylvestre Bonnard*; Labiche, *la Cagnotte*) with oral and written exercises in composition based upon the texts read; and the slow dictation of ordinary French prose. First Semester, fifty-four exercises, [3].

PROFESSORS DOW AND POTTER AND MR. WILL.

4. Continuation of Course 3. The following works will be read: Molière, *l'Avare*, *les Fourberies de Scapin*, *le Malade imaginaire*; La Fontaine, *Fables*; Beaumarchais, *le Mariage de Figaro*; Chateaubriand, *les Aventures du dernier Abencerage*; Hugo, *Quatre-vingt-treize*; Balzac, *Eugénie Grandet*. A more rapid dictation of ordinary French prose. Several of La Fontaine's fables will be committed to memory and brief summaries will be written in French of portions of the works read. Second Semester, fifty-four exercises, [3].

PROFESSORS DOW AND POTTER AND MR. WILL.

Courses 3 and 4 are prescribed for Freshmen in the Latin-Scientific and the Chandler Scientific Courses who offered French for admission to college. They may be elected also by students in the Latin-Scientific and the Chandler Scientific Courses who have passed in Courses 1 and 2, and by students in the Classical Course who have had an amount of French equivalent to the requirements for admission to the Latin-Scientific and the Chandler Scientific Courses.

5. General Survey of French Literature. In this course students will be given an opportunity to become acquainted with many of the greatest works in French Literature. After the *Récits extraits des poètes et prosateurs du moyen-âge*, of Gaston Paris, and the sixteenth century lyrics contained in Canfield's *French Lyrics*, works of the following authors will be read, — Corneille, Racine, Molière, Pascal, Boileau, La Rochefoucauld, La Bruyère, Marivaux, and Voltaire. In addition to the reading, weekly themes in both French and English will be required from the students. First Semester, fifty-four exercises, [3].

PROFESSOR POTTER.

6. Continuation of the above. Special attention in this course will be paid to authors of the nineteenth century. The class will read selections from the works of Chateaubriand; Balzac's *le Curé de Tours*; George Sand's, *Marianne*; Poems by Alfred de Musset, Alfred de Vigny, Th. Gautier, Leconte de Lisle, Verlaine, Heredia, and Sully-Prudhomme; and Rostand's, *Cyrano de Bergerac*. Second Semester, fifty-four exercises, [3].

PROFESSOR POTTER.

7. Elementary course in French Composition. Grandgent's *French Composition* will be used as a text-book the first part of the course and will be followed by exercises based upon some modern

French prose work. In addition to the regular work in composition there will be practice in writing from dictation. First Semester, thirty-six exercises, [2]. PROFESSOR POTTER AND MR. WILL.

8. Continuation of the above. Second Semester, thirty-six exercises [2]. PROFESSOR POTTER AND MR. WILL.

9. Advanced Course in Conversation and Composition. Practice in speaking and writing French. Dictations, readings, and talks in French. Open to students who have passed in Courses 3 and 4. First Semester, thirty-six exercises, [2]. PROFESSOR DOW.

10. Continuation of Course 9. Open only to students who have taken that course. Second Semester, thirty-six exercises, [2]. PROFESSOR DOW.

11. History of French Literature in the Seventeenth Century. A study of the origin and development of the various forms, with particular attention to the classic French theatre. Translation in class of the following: Corneille, *le Cid*, *Polyeucte*; Racine, *Andromaque*, *Britannicus*, *Athalie*; Molière, *l'Avare*, *le Misanthrope*, *le Médecin malgré lui*, *le Bourgeois gentilhomme*, *les Femmes savantes*; La Fontaine, *Selected Fables*. Memorizing of selected passages; lectures, themes, collateral reading, and reports. First Semester, fifty-four exercises, [3].
[Offered in 1900-1901.] MR. LANGLEY.

12. Continuation of Course 11. Second Semester, fifty-four exercises, [3].
[Offered in 1900-1901.] MR. LANGLEY.

13. History of French Literature in the Nineteenth Century. A study of the French, and the foreign origins of romanticism in France; of the conflict between romanticism and classicism; of the origin and growth of realism; of the influence of the Northern literatures in France, and of the more recent movements in French literature. Lectures, reading in class, themes, weekly reports, and collateral reading. First Semester, fifty-four exercises, [3].
[Offered in 1900-1901.] PROFESSOR DOW.

14. Continuation of Course 13. Second Semester, fifty-four exercises, [3].
[Offered in 1900-1901.] PROFESSOR DOW.

SPANISH

ASSISTANT PROFESSOR POTTER

1. Elementary course in grammar, composition, and reading. The object of the course is to enable the student at the end of the year to translate easy English into Spanish, and to read with little difficulty modern prose.

The text-books used will be as follows: Ramsey's *Text-Book of Modern Spanish*; Matzke's, *Spanish Reader*; Galdós, *Doña Perfecta*; Moratín, *El Sí de las Niñas*. First Semester, fifty-four exercises, [3].

2. Continuation of the above. — Second Semester, fifty-four exercises, [3].

Students are not allowed to elect Spanish 1 and 2, and Italian 1 and 2 in the same year.

3. Advanced Spanish. Reading and Composition.

In this course attention will be paid first to the classic writers of the sixteenth and seventeenth centuries, and afterwards to the more important authors of the present day.

The whole or parts of the following works will be read in the class-room: *Lazarillo de Tormes*; Cervantes, *Don Quixote*; A play by Lope de Vega; Calderón, *El Alcalde de Zalamea*; Echegaray, *El Gran Galeoto*; Nuñez de Arce, *Has de Leña*; and novels by Alarcón, Valera, and Pereda. First Semester, fifty-four exercises, [3].

[Offered in 1900-1901.]

PROFESSOR POTTER.

4. Continuation of the above. Second Semester, fifty-four exercises, [3].

[Offered in 1900-1901.]

PROFESSOR POTTER.

ITALIAN

ASSISTANT PROFESSOR POTTER

1. Elementary course in grammar, composition, and reading.

Text-books to be used: Grandgent's *Italian Grammar* and *Italian Composition*; Bowen's *Italian Reader*; Goldoni's *Un Curioso Accidente*, and selections from modern authors. First Semester, fifty-four exercises, [3].

[Offered in 1900-1901.]

2. Continuation of above. Second Semester, fifty-four exercises, [3].

[Offered in 1900-1901.]

Students are not allowed to elect Italian 1 and 2 and Spanish 1 and 2 in the same year.

GERMAN

ASSISTANT PROFESSOR W. A. ADAMS, DR. HARDY, AND MR. STEWART

1. Elementary (*First Year*). (a) Pronunciation, (b) Memorizing and frequent repetition of easy colloquial sentences, (c) Rudiments of Grammar with exercises, (Joynes-Meissner), (d) Reading selections from Hewett's German Reader, (e) Constant practice in translating into German easy variations upon sentences selected from the reading lesson, (f) Reading at sight. First Semester, fifty-four exercises, [3].

PROFESSOR ADAMS, DR. HARDY, AND MR. STEWART.

2. Continuation of Course 1.—(a), (b), (c), (d), (e), (f), continued. Heyse: *L'Arrabbiata* (edition Lenz). Second Semester, fifty-four exercises, [3].

PROFESSOR ADAMS, DR. HARDY, AND MR. STEWART.

Students taking Course 1 must also take Course 2 the next Semester. Courses 1 and 2 are prescribed for Freshmen in the Latin-Scientific and the Chandler Scientific Courses who do not offer German for admission to college, and for Freshmen in the Classical Course who do not elect French on entering and

are not eligible to Courses 5 and 6. Courses 1 and 2 may also be elected later than Freshman year by students in the Classical Course not qualified to enter a more advanced course.

3. Elementary (*Second Year*). Riehl: *Der Fluch der Schönheit* (edition Thomas). Hoffmann: *Historische Erzählungen* (edition Beresford-Webb). Benédix: *Doctor Wespe* (edition Breul). Grammar, paraphrasing of texts read, word-formation. First Semester, fifty-four exercises, [3].

PROFESSOR ADAMS, DR. HARDY, AND MR. STEWART.

Course 3 is a continuation of Courses 1 and 2. Students having had Courses 1 and 2, and wishing to continue their German, *must* choose Course 3.

4. Continuation of Course 3. Keller: *Romeo und Julia auf dem Dorfe* (edition Adams). Goethe: *Hermann und Dorothea* (edition Thomas). Historical Prose. Seidel: *Herr Omnia* (edition Matthewman). Grammar, paraphrasing of texts read or of outside texts. Second Semester, fifty-four exercises, [3].

PROFESSOR ADAMS, DR. HARDY, AND MR. STEWART.

5. Advanced (*Third Year*). Heine: *Prose* (edition A. B. Faust). Heine: *Poems* (edition White). Freytag: *Die Journalisten* (edition Johnson). Grammar, paraphrasing of texts, word-formation. First Semester, fifty-four exercises, [3].

MR. STEWART.

6. Continuation of Course 5. Freytag: *Dr. Luther* (edition Goodrich). Schiller: *Die Jungfrau von Orleans* (edition Nichols). Seidel: *Herr Omnia* (edition Matthewman). Uhland: *Poems* (edition Hewett). Grammar, paraphrasing. Second Semester, fifty-four exercises, [3].

MR. STEWART.

Courses 5 and 6 are prescribed for Freshmen in the Latin-Scientific and the Chandler Scientific Courses who offered German for admission to college. They may be taken instead of 1, 2, 3, and 4 by Freshman in the Latin-Scientific and Chandler Scientific Courses who have had an amount of German equivalent to the requirements for admission, but did not offer German for entrance. They may also be elected by Freshmen in the Classical Course who have had an amount of German equivalent to the requirements for admission to the Latin-Scientific and Chandler Scientific Courses.

7. Schiller, Works and Life. Reading of plays, poems, and prose writings with study of life. Wilhelm Tell (in 1900-1901, Kabale und Liebe); Wallensteins Tod; Gedichte; Der dreissigjährige Krieg. First Semester, fifty-four exercises, [3]. DR. HARDY.

Course 7 is open only to those who have had previously at least *two* years of German.

8. Lessing, Works and Life. Reading of plays and prose writings with study of life. Minna von Barnhelm; Nathan der Weise; Laokoon (selections). Second Semester, fifty-four exercises, [3].

PROFESSOR ADAMS.

9. Modern German Prose. Reading of a considerable amount of prose taken from representative modern writers. Sudermann: Frau Sorge; Freytag: Karl der Grosse; Freytag: Dr. Luther; Schönbach: Ueber Lesen und Bildung. First Semester, fifty-four exercises, [3].

PROFESSOR ADAMS.

Course 9 is open only to those who have had previously at least *two* years of German.

10. Lyrics and Ballads. Reading of a considerable amount of representative German lyrics and ballads. Study of authors and periods. Deutsche Lyrik (edition Buchheim). Deutsche Balladen und Romanzen (edition Buchheim). Deutsche Volkslieder (edition White). Second Semester, fifty-four exercises, [3].

DR. HARDY.

Course 10 is open only to those who have had previously at least *two* years of German.

11 and 12. Scientific German. In this course the student will first be made acquainted with the more general vocabulary of modern scientific German: for this purpose Gore's German Science Reader will be used. The make-up of the division will then determine what particular branch or branches of scientific German (*i. e.* whether Medicine, Physics, Botany, etc.) will be studied. First and second Semesters, one hundred and eight exercises, [3]. MR. STEWART.

Courses 11 and 12 are open only to those who have had previously at least *two* years of German.

13 and 14. Composition and Conversation. First and Second Semesters, seventy-two exercises, [2]. DR. HARDY.

Course 13 is open only to those who have had previously at least *two* years of German. Course 14 is open only to those who have taken course 13.

15. Goethe, Works and Life. Selected poems, chronologically arranged, one hour each week throughout the year: some of the longer poetical and prose works two hours each week. In connection with a study of the young Goethe, Götz von Berlichingen will be read, of the more mature Goethe, Iphigenie. Work supplemented by lectures and selections from the Autobiography. Text-books: Goethe's Poems (edition Harris); Götz von Berlichingen (edition Goodrich); Iphigenie (edition Eggert); Dichtung und Wahrheit (edition Cotta). First Semester, fifty-four exercises, [3].

PROFESSOR ADAMS.

Course 15 is open only to those who have had previously at least *two* years of German and ordinarily would be taken most satisfactorily after *three* years of work in German. Consent of the instructor necessary in the case of those who have had previously only *two* years of German.

16. Continuation of Course 15. Faust I and parts of Faust II. Poems continued. Selections from Goethe's Conversations with Eckermann. Study of the mature Goethe. Discussion of the leading essays in English upon Goethe. Lectures. Faust I (edition Thomas); Faust II (edition Thomas); Poems (edition Harris); Gespräche mit Eckermann (edition Reclam). Second Semester, fifty-four exercises, [3].

PROFESSOR ADAMS.

Course 16 is open only to those who have had previously at least *two* years of German and ordinarily would be taken most satisfactorily after *three* years of work in German. Consent of the instructor necessary for those who have previously had only *two* years of German. Course 16 may be chosen by those who have not taken Course 15.

MATHEMATICS.

PROFESSORS SHERMAN AND WORTHEN AND MESSRS. POOR AND PROCTOR

1. Algebra. Quadratic and indeterminate equations, ratio and proportion, variation, series, binomial formula, logarithms, permutations and combinations, theory of equations, graphic algebra. (Wells' College Algebra.) First Semester, seventy-two exercises, (4).

PROFESSOR WORTHEN AND MESSRS. POOR AND PROCTOR.

1 a. Algebra. Logarithms, permutations and combinations, probability, continued fractions, summation of series, theory of equations, graphic algebra. (Wells' College Algebra.) First Semester, forty-eight exercises, [4].

PROFESSOR SHERMAN.

2. Solid Geometry, with original demonstrations and the solution of problems relating to the surfaces and volumes treated. (Phillips and Fisher.) Second Semester, twenty-eight exercises, [4].

PROFESSOR SHERMAN AND MESSRS. POOR AND PROCTOR.

3. Spherical Trigonometry, with applications to geodesy and astronomy. (Phillips and Strong.) First Semester, twenty-four exercises, [4].

PROFESSOR SHERMAN.

4. Plane Trigonometry, with applications to problems in surveying. (Phillips and Strong.) Second Semester, twenty-eight exercises, [4].

PROFESSOR SHERMAN AND MESSRS. POOR AND PROCTOR.

4 a. Spherical Trigonometry. (Phillips and Strong.) Second Semester, sixteen exercises, [4].

PROFESSOR SHERMAN AND MESSRS. POOR AND PROCTOR.

5. Plane Analytic Geometry, including Higher Plane Curves. (Hardy.) First Semester, forty exercises, [4].

PROFESSOR WORTHEN.

6. Plane Analytic Geometry, including Higher Plane Curves. (Hardy.) Second Semester, fifty-two exercises, [4].

PROFESSOR WORTHEN.

7. Analytic Geometry of three dimensions. (Hardy.) First Semester, sixteen exercises, [4]. PROFESSOR WORTHEN.

8. Analytic Geometry of three dimensions. (Hardy.) Second Semester, twenty exercises, [4]. PROFESSOR WORTHEN.

9. Differential Calculus, with geometrical applications. (Hardy.) First Semester, sixteen exercises, [4]. PROFESSOR WORTHEN.

10. Differential Calculus, continued. Second Semester, thirty-two exercises, [4]. PROFESSOR WORTHEN.

11. Differential Calculus, with geometrical applications. (McMahon and Snyder.) First Semester, seventy-two exercises, [4]. PROFESSOR SHERMAN.

12. Integral Calculus, with applications to analytic geometry. (Hardy.) Second Semester, forty exercises, [4]. PROFESSOR WORTHEN.

12 a. Integral Calculus, with applications to analytic geometry, and including the elements of Differential Equations. (Murray.) Second Semester, seventy-two exercises, [4]. PROFESSOR SHERMAN.

Courses 1, 2, 4, 4 a, 5, 7, 9, 10, and 12 are intended for those who enter with Mathematics I; Courses 1 a, 3, 6, 8, 11, and 12 a are intended for those who enter with Mathematics II. Either of the above series is essential for the pursuit of the advanced courses in Engineering, Physics, and Astronomy.

13. Analytic Mechanics. This course is described under Physics 5. (Williamson and Tarleton.) First Semester, fifty-four exercises, [3]. MR. POOR.

14. Differential Equations. (Murray.) Second Semester, thirty-six exercises, [2]. PROFESSOR WORTHEN.

15. (a) Solution of Transcendental and Higher Algebraic Equations. (Merriman.) [1].

(b) Determinants. (Weld.) [2]
First Semester, fifty-four exercises, [3].

PROFESSOR SHERMAN.

16. Elliptic Functions. (Baker.) Second Semester, thirty-six exercises, [2]. PROFESSOR SHERMAN.

17. Quaternions. (Hardy.) First Semester, thirty-six exercises, [2]. PROFESSOR WORTHEN.

18. Theory of Functions (Harkness and Morley). Second Semester, fifty-four exercises, [3]. PROFESSOR WORTHEN.

19. Projective Geometry. (Reye.) First Semester, thirty-six exercises, [2]. PROFESSOR SHERMAN.

GRAPHICS

PROFESSOR HAZEN AND ASSISTANT PROFESSOR MANN

1. Mechanical Drawing. An introductory course treating of the instruments and materials used and the methods of caring for them. It includes the construction of architectural and engineering drawings, lettering, shading, and tinting. First Semester, fifty-four exercises, [3]. PROFESSOR HAZEN.

2. Mechanical Drawing. Elementary projection drawing; third angle projections; the construction of projections and sections from models and actual structures; isometrical drawing; cabinet projections and the elements of architectural drawing. Second Semester, fifty-four exercises, [3]. PROFESSOR HAZEN.

3. Descriptive Geometry, as applied to the representation by drawings or projections of all geometrical magnitudes and the intersections and tangencies of developable, double-curved, and warped surfaces. First Semester, fifty-four exercises, [3].

PROFESSOR HAZEN.

4. Descriptive Geometry, continued and applied to Spherical Projections, Shades and Shadows, and Linear Perspective. The last part of the course will be devoted to Topographical Drawing. Second Semester, fifty-four exercises, [3].

PROFESSOR HAZEN.

- 4a. This is a course in Linear Perspective, Topographical Drawing and Machine Drawing. First Semester, fifty-four exercises, [3].

PROFESSOR HAZEN.

Course 4a is open to Juniors in 1900-1901 only.

Courses 1, 2, 3, and 4, are required for the subsequent election of the Thayer Engineering Course.

5. Plotting of land, stadia, and railroad surveys. First Semester, Forty half-days.

PROFESSORS HAZEN AND MANN.

This course constitutes a part of the Thayer School Courses 3, 4, and 5, and the half-days here given are included in the time allotted to those Courses.

6. Graphical Statics. This includes the first principles of the subject and the determination of the stresses in roof and bridge trusses. Second Semester, ten half-days.

PROFESSOR HAZEN.

This course is a part of the Thayer School Course 11, and the half-days here given are included in the time allotted to that course.

CIVIL ENGINEERING

COLLEGE — PROFESSOR HAZEN

THAYER SCHOOL — PROFESSOR FLETCHER AND ASSISTANT
PROFESSOR MANN

2. Surveying with Level, Transit, and Compass; the adjustments, care, and proper methods of using these instruments. This course includes the methods of determining areas; laying out and dividing land; practice with the solar transit used in surveying the Public Lands; determination of true meridian by the sun and polar star; levelling for profiles, city surveying, plotting, and computing from field notes taken in connection with the above work. Second Semester, fifty-four exercises, [3].

PROFESSOR HAZEN.

THAYER SCHOOL COURSES

(August 1 to September 13)

3. Surveying. Theory, adjustments, and use of instruments, including the transit, theodolite, level, plane-table, solar transit, sextant, aneroid barometer, and precise level; land surveying; topographical, hydrographical, and city surveying. Seventy-two half-days.

PROFESSOR MANN.

4. Railroad Engineering. This course includes a reconnaissance, preliminary and location surveys, and estimates of a line from two to three miles long through a country as difficult as is ordinarily met with; also a study of the various forms of easement or transition curves. First Semester, fifty-eight half-days.

PROFESSOR HAZEN.

5. Higher Surveying. This course includes geodetical field-work and computations; the determination of latitude and time by the sextant and transit; azimuth by observations on the sun, Polaris, and some other star at elongation; also photography applied to surveying. Theory and applications of Least Squares. First Semester, fifty-six half-days.

PROFESSOR MANN.

6. Analytical Mechanics and general applications; Kinematics, Dynamics; Statics and Kinetics. Principles and working conditions, including friction and various applications. Elements of Mechanism. First and second Semesters, sixty half-days.

PROFESSOR FLETCHER.

7. Masonry Constructions. This course includes a study of building stones, brick and mortar; the building of stone, brick, and artificial stone masonry; of foundations on land, on piles, and under water; of masonry dams, retaining walls, bridge abutments and piers, culverts and arches; a course in Practical Mineralogy and the testing of limes and cements in the laboratory. First Semester, fifty half-days.

PROFESSORS FLETCHER AND HAZEN.

8. Stone-cutting, including the discussion and designing of arches and wing walls. Second Semester, sixteen half-days.

PROFESSOR HAZEN.

9. Mechanics of Materials, including the theory of beams, columns, and shafts; the methods of designing such elementary structures, and bridge and roof connections and joints. Second Semester, thirty half-days. PROFESSOR MANN.

10. Highway Engineering. This course considers the approved methods of constructing McAdam, Telford, gravel, and common earth roads; wood, stone, brick, and asphalt pavements for cities; and the proper methods of maintaining country roads and city pavements. Second Semester, seventeen half-days. PROFESSOR HAZEN.

11. Roofs and Bridges, including analytical and graphical determination of the stresses in roof and bridge trusses. Design of a simple roof and bridge. Second Semester, forty half-days. PROFESSOR HAZEN.

12. Materials of Engineering, including wood, building stones, and the manufacture of iron and steel, the methods of testing all of these materials, and a study of the machines used in making these tests. Second Semester, eighteen half-days. PROFESSOR FLETCHER.

PHYSICS

PROFESSOR NICHOLS, ASSISTANT PROFESSOR HULL, AND
MESSRS. POOR AND BACON

1. A study of the phenomena and simpler laws of General Mechanics, Sound, and the larger part of Heat. First Semester, fifty-four exercises, [3]. PROFESSOR NICHOLS AND MR. BACON.

2. A continuation of Course 1, including the remaining chapters on Heat, and a study of the phenomena and simpler laws of Electricity, Magnetism, and Light. Second Semester, fifty-four exercises, [3]. PROFESSOR NICHOLS AND MR. BACON.

Courses 1 and 2 provide a year's work in General Physics for beginners, and are required of all Sophomores in College. Instruction is given by lectures with an ample number of illustrative experiments, by recitations and examinations upon the lectures and a text-book, — Ames' Theory of Physics.

3. A course in Practical Physics in the laboratory, devoted to the experimental verification by the student of many physical laws, of practice in the use of instruments of precision, and to the acquisition of some knowledge of the simpler methods of Physical Manipulation. The experiments cover the subjects of Mechanics, Sound, and Heat. "A Laboratory Manual of Experiments in Physics" (Ames and Bliss) serves as a Guide in this Course, and in Course 4. First Semester, fifty-four exercises, [3].

PROFESSOR NICHOLS AND MR. BACON.

4. A continuation of Course 3, extended into the study and experimental verification of formulæ in Electricity, Magnetism, and Light. Second Semester, fifty-four exercises, [3].

PROFESSOR HULL.

5. Analytic Mechanics. A recitation course in Dynamics, with numerous examples and applications of Calculus to physical problems; this course is limited to those who have studied Differential and Integral Calculus. (Williamson and Tarleton's Dynamics.) First Semester, fifty-four exercises, [3].

MR. POOR.

5 a. Analytic Mechanics. A course of lectures on Statics, including the composition and resolution of forces acting on a particle and on a rigid body; efficiency of machines, sensitiveness of a balance, equilibrium of flexible strings and the elementary theory of attractions; Kinematics; Dynamics, the motion of projectiles, collision of elastic bodies, simple harmonic motions and central orbits. Without sacrificing the rigidity of mathematical deductions, recourse will be had, where occasion permits, to experimental illustrations. Text: Williamson and Tarleton. Prerequisite, Differential and Integral Calculus, and Physics 1 and 2. First Semester, fifty-four exercises, [3].

[1900-1901.]

PROFESSOR HULL.

6. Advanced Optics. This course will consist of lectures, experimental and theoretical, recitations, and laboratory work. The domain covered will be nearly that of Preston's Theory of Light. Laboratory exercises in the measurement of the refractive index and dispersive power of glass, the wave length of light by the grating and interferometer, and of the phenomena of diffraction and polarization, will be performed by the students. Prerequisite, Differential and Integral Calculus and Physics 1 to 3. Second Semester, fifty-four exercises, [3].

PROFESSOR HULL.

8. Wave Motion, with application to physical phenomena ; Thermodynamics, including the elementary kinetic theory of gases, and the theory of solutions. Lectures and text references. Prerequisites, Physics 1 to 5 inclusive, Differential and Integral Calculus. Second Semester, fifty-four exercises, [4].

[1900-1901.]

PROFESSOR HULL.

10. Electricity and Magnetism. A course of lectures and recitations on the theory of electricity and magnetism, following for the most part J. J. Thomson's text. Applications of the theory will be made by the students in the experimental study of electrometers, the inductive capacity of dielectrics, stream and equipotential lines, and galvanometers. Prerequisites, Physics 1 to 5 inclusive, Differential and Integral Calculus. Second Semester, fifty-four exercises, [3].

[1900-1901.]

PROFESSOR HULL.

11. A seminary for the discussion of the current periodical literature in Physics : intended for advanced students who will confer with the department before electing the course. First Semester, thirty-six exercises, [2].

[1900-1901.]

PROFESSORS NICHOLS AND HULL.

12. A seminary for the discussion of the current periodical literature in Physics. A continuation of Course 9. Second Semester, thirty-six exercises, [2].

[1900-1901.]

PROFESSORS NICHOLS AND HULL.

ASTRONOMY

PROFESSOR E. B. FROST AND MR. POOR

2. General Astronomy. A recitation course in general descriptive Astronomy, supplemented by occasional lectures, and by frequent visits to the Observatory. The previous study of elective courses in mathematics is not necessary, but a knowledge of Analytic Geometry is desirable. (Young's General Astronomy, Revised Edition.) Second Semester, fifty-four exercises, [3].

PROFESSOR FROST.

4. Spherical Astronomy. The knowledge of Analytic Geometry and Calculus is necessary for this course, which is planned to meet the needs of the students of Physics, Engineering, and Astronomy. It involves the practical study of spherical triangles, and furnishes practice in the reduction of observations and in the art of computing. The observations consist chiefly in the determination of time and latitude by various methods with the Sextant, and in measuring zenith-distances with the Meridian Circle. (Campbell's Practical Astronomy.) Second Semester, thirty-six exercises, [2]. MR. POOR.

5. Practical Astronomy. The course includes the use of the Meridian Circle in the determination of time, right ascensions, and personal equation; and of the Equatorial Telescope, in general observations upon the sun and interesting celestial objects, and in measurements with Ring and Filar Micrometers. The method of least squares is briefly taken up. It will be understood that much more time will be required in reducing the observations than in securing them. (Campbell's and Chauvenet's Practical Astronomies.) First Semester, thirty-six exercises, [2]. MR. POOR.

6. Theoretical Astronomy. The practical computation of planetary and cometary motions. Knowledge of the Calculus and of Analytic Mechanics is necessary for this course. (Klinkerfues' *Theoretische Astronomie*, Watson's Theoretical Astronomy, and other reference books.) Second Semester, thirty-six exercises, [2].

MR. POOR.

7. Astrophysics. This course includes the study of sun-spots, the determination of their positions and motions, and of the rotation of the sun; the investigation of the various instruments employed in spectroscopy, with practical measurements; the application of photography to astronomical and spectroscopical work, and the study of variable stars.

Each course in Astronomy is open only to students who have taken or are then taking the preceding course.

CHEMISTRY

PROFESSOR BARTLETT AND DR. C. H. RICHARDSON

1. (a) Chemistry of the Non-Metallic Elements. Illustrated lectures, with recitations, a text-book (Newth's Inorganic Chemistry) being prescribed. In this course special emphasis is laid upon the General Principles of Chemistry, the Notation in its experimental and arithmetical meaning, upon Nomenclature and Terminology in their applications. Some familiarity with the properties of chemical substances and with processes is acquired.

(b) The Metallic Elements, with especial reference to their sources, compounds, and practical uses. For the current year Course 1, (a) and (b), will be treated as a single continuous course. First Semester, fifty-four exercises, [3].

PROFESSOR BARTLETT.

2. (a) Laboratory Work, illustrating and continuing Course 1, with demonstrations and short recitations daily. This course deals primarily with the preparation and properties of the more familiar elements and their compounds, and with the preparation of some metallic salts. (Bartlett's Laboratory Exercises.) Second Semester, twenty-one exercises, two hours each, [3].

(b) Laboratory Work. Qualitative Analysis. The identification of the basic and acid radicals by blowpipe and wet methods, with short recitations. For the current year Courses 2, (a) and (b), will be treated as a single course. (A. A. Noyes's Qualitative Analysis.) Second Semester, thirty-three exercises, two hours each, [3].

PROFESSOR BARTLETT AND DR. RICHARDSON.

4. In place of Course 2, students who have had the equivalent of Course 1 (a) and (b) may begin at once upon a longer course of Qualitative Analysis. Second Semester, fifty-four exercises, two hours each, [3].

PROFESSOR BARTLETT AND DR. RICHARDSON.

5. (a) The Carbon Compounds. Recitations and lectures with regular written reviews. (Remsen's Organic Chemistry.)

(b) Laboratory Work, illustrating Course 5 (a), based on standard manuals. Reactions and preparations. Course 5 (a) and (b) is about equally divided between one-hour recitations and two-hour laboratory exercises. First Semester, seventy-two exercises, [4].

DR. RICHARDSON.

7. Quantitative Analysis. A course in the Laboratory arranged from standard texts. Gravimetric and Volumetric methods, with special applications. First Semester, seventy-two exercises, two hours each, [4]. PROFESSOR BARTLETT.

8. Quantitative Analysis. Same as Course 7, and open only to students who have completed Course 5 (a) and (b). Second Semester, seventy-two exercises, [4]. PROFESSOR BARTLETT.

10. Quantitative Analysis of Silicates. Open to those only who have completed Course 8 and Chemical Mineralogy 1. Second Semester, seventy-two exercises, [4]. DR. RICHARDSON.

Each course in chemistry, except Course 7, is open only to students who have completed the preceding course, or its equivalent.

BIOLOGY

ZOOLOGY AND BOTANY

PROFESSOR PATTEN, DR. GEROULD, AND MR. MOORE

The courses in Zoölogy and Botany are designed for three classes of students, namely: (*a*) for those who wish to know something of the elementary principles and aims of the science; (*b*) for those who intend to study medicine; and (*c*) for those who expect to teach the natural sciences, or who for any reason are interested in the subject and wish to give it special attention.

Courses 1, 2, 3, 4, and 8 are elementary in character, and are intended for those who desire a comprehensive view of the subject. Those who intend to study medicine will find the following courses of especial value as a preparation for the study of human anatomy, physiology, and bacteriology: namely, Biology, 1, 2, 3, 6, 7, 8, and 9. Courses 1, 6, and 8 will be useful to students of psychology.

While the above named courses have been modelled to meet the requirements of the general student and of those who have a medical career in view, the symmetry and continuity of the entire series of courses has been maintained in order to meet the requirements of

those who expect to teach the natural sciences or to become professional biologists.

1. General Biology. This is an introductory course, consisting of two lectures and two laboratory exercises a week. A few examples of the simplest kinds of plants and animals, whose structure, action, and life-history illustrate important principles of the science, are selected for study in the laboratory. The lectures and supplementary reading treat of the distinctions between plants and animals, their relations to one another and to their environment, the theories that attempt to explain heredity, variation, the origin and perpetuation of existing forms of plants and animals, and the relations of fungi and bacteria to putrefaction, fermentation, and disease. (T. J. Parker's *Elementary Biology*, and collateral reading.) First Semester, seventy-two exercises, (4).
DR. GEROULD.

2. Elementary Invertebrate Zoölogy. This course treats of the structure, activities, and life-history of invertebrate animals, and the problems that naturally arise from their consideration. The phenomena of cleavage, formation of germ layers, and larval development, and the origin, structure, and function of fundamental tissues and organs are briefly discussed. In the laboratory, examples of the principal groups of invertebrates are studied. (Parker and Haswell's *Manual of Zoölogy*.) Second Semester, seventy-two two-hour exercises, [4].
DR. GEROULD.

3. Cryptogamic Botany. This course is designed to give beginners a comprehensive view of the subject. Typical forms of the green, brown, and red Algae are studied, with especial reference to those contaminating water supplies. The lectures on Bacteria are devoted to a discussion of their morphology and the phenomena of fermentation and putrefaction, rather than to a consideration of pathogenic forms. In the laboratory, typical species are examined and some practice is obtained in making various kinds of culture media. The moulds (Phycomycetes), cup-fungi (Ascomycetes), Lichens, mushrooms (Basidiomycetes). Mosses and Ferns are studied and the close relation between the last two groups and the higher plants is brought out. The course will be useful to any who desire a general knowledge of lower plant life, but is especially adapted for those who expect to do advanced work in biology, or to become students of medicine. First Semester, fifty-four two-hour exercises, [3].
MR. MOORE.

4. Comparative Anatomy of Vertebrates. The course will consist of a careful study of the anatomy of Amphioxus, an ascidian, a fish, a reptile, an amphibian, and a bird. The outlines of the classification of vertebrates, the homologies and the histological structure of vertebrate organs, the theories of the structure of the vertebrate head, and of the derivation of the Chordata will be discussed. The object of the course is to illustrate the evolution of the vertebrate type of animals from the lowest fishes and related forms, up to man, and to discuss some of the conditions that are coincident with, or determine, the progressive modification of various vertebrate organs. The course is intended for those especially interested in zoölogy, or for those who wish to lay a broad foundation for the study of human anatomy, physiology, or comparative psychology. (Wiedersheim's Comparative Anatomy of Vertebrates, Gray's Anatomy, and the embryological text-books of Minot, Hertwig-Mark, etc.) Second Semester, fifty-four two-hour exercises, [3].

PROFESSOR PATTEN.

6. Comparative Anatomy and Physiology of the Nervous System and Sense Organs. A course of lectures and demonstrations illustrating the structure and evolution of the nervous system and sense organs, with special reference to their physiology. A desirable course for students of medicine or psychology. Open to students who have taken Courses 1 and 2. Second Semester, thirty-six one-hour exercises, [2].

DR GEROULD.

7. Cytology. This course treats of the structure and activities of animal and plant cells. The structure of protoplasm, its physical and chemical properties, the theories of heredity, cell-division, and the effects of nutrition, stimulation, and exhaustion of cells are discussed. First Semester, fifty-four exercises, [3].

PROFESSOR PATTEN.

8. *The Principles of Biology*: A course of lectures on the structure and activities of plants and animals, with a discussion of the principal phenomena of nutrition, growth, reproduction, heredity, variations, natural selection and evolution. The course is designed especially for those who desire a brief statement of the principles and aims of the science. Second Semester, thirty-six one-hour exercises, [2].

PROFESSOR PATTEN.

9. Vertebrate Embryology. A study of the Embryology of the frog, the chick, and a mammal. Open only to those who have done

satisfactory work in Biology 1, 2, and 4. (Minot's Human Embryology, Hertwig's Embryology of Vertebrates, Marshall's Vertebrate Embryology.) First Semester, seventy-two two-hour exercises, [4].

PROFESSOR PATTEN.

10. General Botany. The morphology and physiology of flowering plants, with plant analysis. The course treats of the structure, habits, classification, and ecological relations of plants. A few simple experiments are performed in plant physiology, and some of the fundamental principles of plant life are brought out. An opportunity is given for the preparation of an herbarium. Second Semester, fifty-four two-hour exercises, [3].

MR. MOORE.

11. Vegetable Histology and Microtechnique. A study of the unorganized contents of cells and the histological characters of economic plants with reference to the identification of the crude products derived from them. Practice in detecting the adulteration of foods and drugs and a systematic study of some of the more important plants of the Pharmacopœia. This course must be preceded by Biology 10 or its equivalent. It is designed for any who expect to teach or do special work in Botany, as well as for those who intend to study medicine or pharmacy. First Semester, fifty-four two-hour exercises, [3].

MR. MOORE.

12. Plant Physiology. Experimental study of the properties of Protoplasm and its relation to external stimuli; nutrition, growth, etc. The number in this course being necessarily limited, preference will be given to those who intend to teach or are unusually well prepared. Biology 6 and 10 must precede it, and a general knowledge of Physics and Chemistry is necessary. (Chemistry 1 and 2, and Physics 1, 2, and 3 are recommended). Second Semester, fifty-four two-hour exercises, [3].

MR. MOORE.

A course in Human Anatomy, given by Dr. Gilman D. Frost in the Medical School, is open to Seniors in regular standing.

Graduate students may receive instruction leading to the higher degrees in Zoölogy or Botany, the subject-matter varying with the requirements of each student. A reading knowledge of French and German is essential.

Exceptional facilities exist for the study of the taxonomy and morphology of cryptogamous plants.

GEOLOGY AND MINERALOGY

PROFESSOR HITCHCOCK

MINERALOGY

1. Chemical Mineralogy. Recitations, lectures, and laboratory work. The student will make use of the blowpipe and various reagents to determine the elements and compounds occurring as minerals. (Fraser's Tables.) First Semester, thirty-six exercises, [2].

PROFESSOR HITCHCOCK.

Open only to those who have taken two courses in Chemistry.

2. Crystallographic Mineralogy. (Williams' Text-book of Crystallography.) Second Semester, eighteen exercises, [1].

PROFESSOR HITCHCOCK.

3. Petrography. This is a continuation of Courses 1 and 2. Minerals are first studied by the aid of polarized light, and secondly in their combinations as crystalline rocks. The work is done chiefly in the Laboratory. (For reference, Rosenbusch's Petrography, and its translation by Iddings.) First Semester, thirty-six exercises, [2].

PROFESSOR HITCHCOCK.

GEOLOGY

1. (a) Physical Geology. This includes Dynamical, Structural, and Physiographical Geology, thus embracing the study of atmospheric, aqueous, organic, and igneous agencies, the structure of the earth's crust, origin and classification of mountains, and the effects of erosion upon topography.

(b) Historic Geology. This course takes up the study of the terranes of the earth's crust in the chronological order of their formation. It is the central feature of Geology, to which all other departments of the science are tributary. The evolution of the continent of North America, and Paleontology, or the study of extinct animals and plants, constitute parts of the course. It is expected that the illustrations pertaining to Historic Geology now in use will be greatly augmented

when the Butterfield funds are available. Lectures and field excursions supplement the recitations whenever advisable. (Le Conte's Elements of Geology.) First Semester, fifty-four exercises, [3].

PROFESSOR HITCHCOCK.

3. This course will cover the same ground as Course 1 (a) and (b). Recitations and lectures. (Scott's An Introduction to Geology.) First Semester, thirty-six exercises, [2].

PROFESSOR HITCHCOCK.

4. Mineral Resources of the United States. Descriptive and statistical lectures on the occurrence, distribution, and production of the valuable minerals. References will be continually made to the volumes published by the Census Bureau, the Geological Survey, and the Mint, and to Rothwell's Mineral Industries. Second Semester, thirty-six exercises, [2].

PROFESSOR HITCHCOCK.

6. Surface Geology. A course of lectures and field exercises; for the latter, the facilities are remarkably favorable in the vicinity of the College. The topic is largely the Age of Ice, together with the peculiar phenomena attending the melting of the ice. The life of that age is also considered, both as to its distribution and as to its reference to the antiquity and early history of man. Second Semester, thirty-six exercises, [2].

PROFESSOR HITCHCOCK.

Graduate students and candidates for the degree of Ph.D. will engage in field-work in areas specially assigned, and apply the principles of Petrography to specimens of their own collection.

They will study the Reports of the several States, the larger manuals of Geikie and Dana, and special treatises, according to the particular subject assigned.

HISTORY

PROFESSOR FOSTER AND ASSISTANT PROFESSOR ABBOTT

The courses in History are intended for two classes of students: (1) those desiring an outline of historical development from ancient to modern times. To such men are offered Courses 1-7, covering one year in mediæval and modern European History from the fourth to the eighteenth century, one year in English History, one year in Am-

erican History, and one half year in Modern History since the beginning of the French Revolution. Course 1, required of all students, gives such training as is essential for the use of ordinary historical material. Courses 3-7 usually call for the writing of reports or essays to combine results and put into more definite practice the training previously given. (2) For students having some especial interest in History or the particular period covered, or desiring training to teach the subject, Courses 8, 10, and 11 are designed. These courses are devoted to a more critical study of selected topics in the period already covered in outline, and to the presentation of results in the form of lectures or theses.

1. (a) Mediæval History from the Teutonic Migrations to the Renaissance (375-1500). The student should own the following text-books: Emerton, *Introduction to the Middle Ages*, and *Mediæval Europe*; Putzger, *Historischer Schul-Atlas*; and Thatcher and Schwill, *Europe in the Middle Age*, or Ploetz, *Epitome of Universal History*. He will find it convenient to own also some of the following books set for additional reading, but will find several copies of each provided for use in the department library: Adams, *Civilization during the Middle Ages*; Bryce, *Holy Roman Empire*; Einhard, *Life of Charlemagne*; Gibbon, *Decline and Fall of the Roman Empire*; Guizot, *History of Civilization in Europe*; Hodgkin, *Theodoric*; Kingsley, *Roman and Teuton*; Kitchin, *History of France*; Milman, *History of Latin Christianity*; Sheldon, *Studies in General History*. The method of instruction is at first largely by recitations, with more frequent lectures as the course advances. A minimum amount of collateral reading is required of all, but it is hoped that the student's interest will lead him into independent reading beyond any requirements. The work in the books set for additional reading is directed by outlines of topics with references, by individual conferences on note-books, and is tested by a division examination at the end of the first month, as well as in the regular recitations and examination. First Semester, fifty-four exercises, [3]. PROFESSORS FOSTER AND ABBOTT.

1. (b) Modern European History to French Revolution. Seebohm, *Era of the Protestant Revolution*; Wakeman, *Ascendancy of France, 1598-1715*; Hassall, *Balance of Power, 1715-1789*, Putzger, *Atlas*, and Ploetz, *Epitome*, as in 1 (a) and in all later courses in continental History. Additional reading in: Bryce, Häusser, *Period of*

the Reformation, or Johnson, *Europe in the Sixteenth Century*, or Fisher, *Reformation*; Köstlin, *Luther*; Kitchin, *History of France*; Lodge, *Richelieu*; Hassall, *Louis XIV*; Longman, *Frederick the Great*. Methods of instruction as in 1 (a). Second Semester, fifty-four exercises, [3]. PROFESSORS FOSTER AND ABBOTT.

3 a. English History, 1509-1885. This period, together with the earlier period hitherto covered in Course 1 (b), will hereafter be treated in Courses 3 and 4. First Semester, fifty-four exercises, [3].

[Offered only in 1899-1900.]

PROFESSOR FOSTER.

3. The History of England to the 16th Century. This course will consist primarily of the political history of the English nation, with such reference as is necessary to constitutional, economic, and intellectual development. Lectures and recitations. Required for admission to Course 4. First Semester, fifty-four exercises, [3].

PROFESSOR ABBOTT.

4. The History of England and the British Empire from the 16th Century. This is a continuation of Course 3, and will include, in addition to the history of Great Britain, the development of the British Empire and the history of its colonies and dependencies. Open to those who have had Course 3. Lectures and recitations. Second Semester, fifty-four exercises, [3]. PROFESSOR ABBOTT.

5. Colonial History to 1783. This course is intended to trace the genesis of the United States. It begins with the consideration of European conditions and colonial policies, especially of England, and traces the influence of both European and American experience on the development of American Institutions and the formation of the Union. Especial efforts are made to lead the students to apply historical methods by the use of accessible contemporary sources, either printed or in manuscript, such as local records of towns or churches. The results of at least one such piece of investigation are presented in a short critical report. Four reports, three outline maps. Lectures and recitations. Channing and Hart, *Guide to the Study of American History*; Thwaites, *Colonies*; Hart, *Formation of the Union*; Doyle, *English Colonies in America*; Lodge, *Colonies*; Winsor; Parkman. Second Semester, fifty-four exercises, [3]. PROFESSOR FOSTER.

6. History of the United States since 1783. This is a continuation of Course 5. Lectures, recitations, and reports. Channing and Hart, *Guide to the Study of American History*; Hart, *Formation of the Union*, or Walker, *Making of the Nation*; Burgess, *Middle Period*; and Wilson, *Division and Reunion*. Second Semester, fifty-four exercises, [3].
PROFESSOR ABBOTT.

After 1899-1900 this will be replaced by Modern History 2.

7. The French Revolution and the 19th Century. Lectures, recitations, and reports. Stephens, *Revolutionary Europe, 1789-1815*; Seignobos, *Europe since 1814*; Fyffe, *Modern Europe*; Andrews, *Europe in 19th Century*. First Semester, fifty-four exercises, [3].
PROFESSOR ABBOTT.

After 1899-1900 this will be replaced by Modern History 1.

8. Political and Military History of Europe from 1618 to 1763. This course will include the great political and military events of the Thirty Years' War, the reigns of Louis XIV and William III, Charles XII and Peter the Great; the wars of the Spanish and Polish successions, and the Northern War; the reign of Frederick the Great and the wars of the Austrian Succession, the first and second Silesian wars, and the Seven Years' War. It will have special reference to the campaigns of Gustavus Adolphus and Wallenstein, Turanne, Condé, William III, Marlborough and Prince Eugene, and of Frederick the Great, and will be based on the material contained in the Thayer collection of military art and history recently presented to the library. Lectures and recitations. Second Semester, thirty-six exercises, [2].
PROFESSOR ABBOTT.

10. Transformation of Mediæval into Modern Europe (1300-1600). The significant characteristics of the Middle Ages contrasted with those of modern times; rise of individual, city, national life; dismemberment of empire and papacy; early attempts at reform; the Renaissance; the Protestant Revolution, the Roman Catholic Reaction, the formation and organization of modern States. This course is more advanced than the earlier narrative courses (1-7), is intended for those especially interested in the period, or desiring especial training in the study and teaching of history, and is open only to students

who have shown a good knowledge of this period in Course 1. No text-book will be used. About one half the time will be taken for lectures; the remainder for quizzes or discussions of general and assigned topics. Each student will be expected to read a considerable amount in the reserved books, and show the results in a special report on a book and in three essays, which may be read in class. Second Semester, fifty-four exercises, [3].

[Offered 1900-1901.]

PROFESSOR FOSTER.

Courses 10 and 12 will be given in alternate years.

12. The Puritan State in Geneva, England, and Massachusetts Bay. This course will include both the political and religious theory, and the actual administration of (1) the Genevan state under Calvin's influence, 1541-1564; (2) the English Puritan state in the 17th century; (3) Massachusetts Bay, 1630-1691. It will be based on Calvin's Institutes, Letters, and "Ordonnances Ecclesiastiques et Autres," Kampschulte, "Johann Calvin-seine Kirche und sein Staat in Genf," Gardiner, Documents illustrating the Puritan Revolution, Cromwell's letters, Col. Hutchinson's Memoirs, Prose of Milton and Bunyan, Records of the Governor and Company of Massachusetts Bay, Town and Church Records, Winthrop's Journal, and other contemporary sources. It is an advanced course intended for those who wish to do special work in History, assumes ability to read French and German, and is open only to those who have taken History 3, 4, 5, and 10; or have done work of high grade in other courses, and have read Häusser, Reformation (to 1555), Gardiner, Student's History, vol. ii (1509-1589), and Doyle, Puritan Colonies, 2 vols., or Thwaites, Colonies, with Fiske, Beginnings of New England. Lectures, theses, and discussions. Second Semester, fifty-four exercises, [3].

[Offered 1899-1900.]

PROFESSOR FOSTER.

In 1900-1901 an opportunity for graduate work in the Reformation Era or American Colonial History will be offered to qualified students who have taken an equivalent for Courses 1-7.

MODERN HISTORY

PROFESSOR SMITH

1. The Political History of Europe from the French Revolution to the Treaty of Berlin (1789-1878). The course will open with lectures on the characteristics of the chief European peoples, the state of Europe on the era of the French Revolution, and the events of 1789, 1790, and 1791. From this point the core of the work will be the study of Fyffe's *Modern Europe*, supplemented with formal lectures, comments, recommended and required readings, essays, debates, and conferences. Due attention will be given to physical and political geography. Special stress will be laid on the vital process by which the Europe of a hundred years ago has become the Europe of to-day. First Semester, fifty-four exercises, [3].

2. The Political History of the United States from the close of the Revolutionary War to the close of the Reconstruction period (1783 to 1877). This course will be conducted in the same general manner as the one just described, except that still more attention will be paid to collateral reading and original sources. The text-books will be Walker's *Making of the Nation*, Burgess's *Middle Period*, and Burgess's *Civil War and Reconstruction*. Second Semester, fifty-four exercises, [3].

ECONOMICS

ASSISTANT PROFESSOR DIXON

It is recommended that courses be taken in the order of their numbers. Courses 3, 4, and 6 are reserved for Seniors.

1. Elementary Economics. The analysis of modern industrial society and the derivation of economic laws. Recitations with occasional lectures. (Walker's *Political Economy*, Elementary Course, and Hadley's *Economics*.) First Semester, fifty-four exercises, [3].

2. English Economic History. A study of industrial development in England from the eleventh century to the present time which aims to show the origin of modern industrial rights and customs as a basis for an intelligent examination of present problems. Lectures and recitations. (Gibbins' *Industry in England: Historical Outlines*.) Second Semester, fifty-four exercises, [3].

3. American Industrial Development. Special attention will be given to the period since the Civil War, and a careful study will be made of modern industrial organization, including the development of the great manufacturing industries; the growth of corporations, trusts, and monopolies; the history and problem of transportation; stock and produce exchanges; relations of capital and labor; and the effect of modern methods of business on producer and consumer. Lectures and recitations. (Stickney's *Railway Problem*, and Ely's *Monopolies and Trusts*.) First Semester, fifty-four exercises, [3].

4. History and Theory of Money. Special attention will be devoted to the financial legislation of the United States. The practical problems before the country will be briefly considered. Modern currency standards in operation in foreign countries. Recitations with occasional lectures. (Report *Indianapolis Monetary Commission*.) Second Semester, fifty-four exercises, [3].

6. Advanced Theory. A study of the development of economic theory. Assigned readings in the works of the Classical School, especially Smith, Ricardo, and Mill, and in the writings of the representatives of modern development, Marshall, Boehm-Bawerk, Patten, Clark, and others. (Ingram's *History of Political Economy*, Cannan's *Production and Distribution*.) Second Semester, thirty-six exercises, [2].

Admission to this course is by special permission of the instructor.

NOTE. — The courses of the Second Semester, 1899-1900, continue for nine weeks only and are combined with work in Political Science.

For additional courses in Economics, see announcement of the Amos Tuck School of Administration and Finance.

POLITICAL SCIENCE

PROFESSOR COLBY

2. The State (Elements of Politics). This course is historical as well as comparative and critical. It treats of the origin and development of the State, its forms, functions, and ends. It includes a brief study of the governments of Greece and Rome, the Teutonic (Mediæval) Polity, and comparison of the present constitutions of England, France, Germany, and the United States. Recitations and lectures. Second Semester, thirty-six exercises, [2]. PROFESSOR ABBOTT.

3. American Constitutional Law. This course is designed to give students a knowledge of the general principles of the Constitutional Law of the United States, both federal and statal. Particular attention is given to the origin and development of American political institutions, to the formation of State governments, and to the immediate causes of the adoption of the Federal Constitution and to its text. Recitations and lectures. (Cooley's Principles of Constitutional Law.) First Semester, fifty-four exercises, [3].

4. Comparative Constitutional Law. This course is intended for students who expect to enter the profession of law, and includes (a) a study of the theory of the State, sovereignty, and liberty, and (b) a critical comparison of the governments of England, France, Germany, and the United States. Lectures and recitations. Second Semester, fifty-four exercises, [3].

5. Elementary Law (Outlines of Jurisprudence). This course is intended for students who expect to enter the profession of law, and is planned to give a general view of the whole field of the law and an introduction to its terminology and its fundamental ideas. It consists of (a) an historical survey of the Roman Law and of the English Common Law, and (b) a critical examination of the fundamental ideas in both these systems of law. Recitations and lectures. First Semester, fifty-four exercises, [3].

6. History of Political Theories. This course is made an alternative with Course 6 in Economics, Advanced Theory. Second Semester, thirty-six exercises, [2].

6 a. International Law. This course is historical and explanatory of present international relations. It treats of the origin and development of the rules that generally govern the intercourse of modern civilized states, the most important European treaties since 1648, and subjects of present interest in American Diplomacy. Lectures and readings. (Snow's Cases on International Law.) Second Semester, twenty-seven exercises, for the last nine weeks, [3].

For further courses in Political Science, see Tuck School.

SOCIOLOGY

PROFESSOR WELLS

2. Anthropology and Ethnology. This is an introductory course and should be taken by those who propose to take subsequent courses in Sociology. It is a study of man as the physical unit of society. It considers man's place in nature and the races and varieties of mankind. The method of treatment is both historical and descriptive. Each student is required to provide himself with a good atlas and to make constant use of the library for notes and reports. Lectures and recitations. Second Semester, fifty-four exercises, [3].

3. Anthropological Geography. This considers man in relation to his physical environment, as determining his dispersal over the face of the earth, his mode of life, and the density of population. It traces the bearings of the natural surroundings upon man's physical and mental characteristics, and follows this fundamental and necessary adjustment through the history of the family and the State and in the evolution of the forms of economic life. First Semester, fifty-four exercises, [3].

3 a. Historical Sociology. A study of the development of human inventions and human institutions, in the light of history and the present conditions among civilized and uncivilized peoples. Lectures and recitations. First Semester, fifty-four exercises, [3].

[Given only in 1899-1900.]

4. Social Statistics and Applied Sociology. This course has for its foundation an inquiry into the chief results of Vital Statistics, such

as birth and death rates, the mortality from different diseases and under varying social and climatic conditions. These data are then brought into connection with Crime, Pauperism, and Social Reform. It is the Biological side of social life. Second Semester, fifty-four exercises, [3].

For further courses in Sociology, see Tuck School.

PHILOSOPHY

PROFESSOR CAMPBELL AND DR. HORNE

1. Psychology. Elementary Course. Outlines of the science. Description and explanation of the phenomena of the mental life. Recitations and readings. (Murray's Handbook of Psychology.) First Semester, thirty-six exercises, [2]. DR. HORNE.

2. Introductory Logic. A study of the outlines of deductive and inductive reasoning with especial reference to fallacies, argumentation, the nature of thought, and the logic of certainty and probability. Recitations and readings. (Creighton's Introductory Logic.) Second Semester, thirty-six exercises, [2]. DR. HORNE.

Juniors are required to elect either Course 1 or 2.

3. Advanced Logic. The Science of Thought. This course considers not the conditions under which valid thinking is possible, but the nature of thinking itself. Recitations and readings. (Everett's Science of Thought.) First Semester, thirty-six exercises, [2].

[Offered in 1900-1901.]

DR. HORNE.

4. Introduction to Philosophy. A general survey of the field of philosophy, with especial reference to the definition of its problem, its spirit, its method, and its relation to the various sciences; the doctrine of nature and of mind, of knowledge and of being. Recitations and readings. (Ladd's Introduction to Philosophy.) Second Semester, fifty-four exercises, [3].

[Offered in 1900-1901.]

DR. HORNE.

5. Advanced Psychology. Philosophy of the mental life, physiological and comparative; animal intelligence, heredity; mental pathology; hypnotism and mind reading; freedom of will; nature and immortality of the soul. Students choose special lines for independent study. Reports presented to class for discussion. The work in Mental Pathology and Hypnotism affords important aid in preparation for legal and medical studies. Recitations, lectures, and readings. (Wundt's Human and Animal Psychology.) First Semester, fifty-four exercises, [3].
PROFESSOR CAMPBELL.

This course must be preceded by Course 1. Students will be assisted in the physiological problems of Psychology by taking Biology 6 before the Elementary Course, and Biology 8 before the Advanced Course. For a Course in Social Psychology, see Sociology 6, Tuck School.

6. Æsthetics. Philosophy of the Fine Arts. Historical development of Architecture, Sculpture, Painting, Music, and Poetry. Recitations and lectures with photographic and stereopticon illustrations. Students choose special topics for theses to be presented to the class. (Kedney, Hegel's Æsthetics.) Second Semester, thirty-six exercises, [2].
PROFESSOR CAMPBELL.

Further study of Architecture, Sculpture, and Vase Painting under Greek 17 and 18, — of Roman building and Wall Painting under Latin 18 and 19.

7. History of Philosophy. Ancient Period. A study of the progressive steps in constructive thought from the earliest times to the birth of accredited Science and Philosophy at the close of the Socratic era. The History of Schools of thinking is treated in its concrete relation to national events, and involves an outline of the Philosophy of History. Lectures, recitations, and readings. First Semester, thirty-six exercises, [2].
PROFESSOR CAMPBELL.

8. Modern Philosophy. History of the national developments of philosophic thinking which have followed the Reformation, in Germany, Italy, France, Great Britain, and America; rise of great personal representatives of Modern Thought; also tendencies and Schools of Philosophy. Second Semester, thirty-six exercises, [2].
PROFESSOR CAMPBELL.

9. Ethics. It is the purpose of Ethics to establish the common foundation of the Moral, Social, and Political Sciences. The total subject embraces three divisions: Historical, Theoretical, and Practical. The Historical exhibits the progressive theories until the founding of Modern Ethics. The Theoretical is an exposition of the principles of man's moral nature, and of the laws of its development in terms of environing conditions. The Practical classifies scientifically, rights and duties as personal, social, civil, and theistic. Lectures, discussions, and readings. First Semester, thirty-six exercises, [2].
PROFESSOR CAMPBELL.

10. Philosophy of Religion. The unitary in ethnic religions; the Greek pantheon as a system of Ethics; validation of theistic ideas; rational development of the spiritual life; sacred books; claims and dominant ideas of Christianity. Among the references are: Tiele's Science of Religion; Campbell's Religion in Greek Literature; Kellogg's Genesis of Religion; Harris' Philosophical Basis of Theism; Caird's Philosophy of Religion; Fairbairn's Philosophy of Religion and of History; Wright's Scientific Aspects of Christian Evidences, — the last used as a text-book. This course is intended quite as much for all who are seeking a rational basis for religious opinions as for those who have in mind the ministerial work. Recitations, lectures, synopses of critical readings, discussions. Second Semester, thirty-six exercises, [2].

PROFESSOR CAMPBELL.

11. Philosophy of Education.

DR. HORNE.

This course is described under Pedagogy 1.

12. History of Education.

DR. HORNE.

This course is described under Pedagogy 2.

13. Systematic Philosophy. Independent investigation at the sources of some important philosophical work, ancient or modern. Selection may be made from Greek, Latin, German, French, or English texts. It is the aim to develop a competency for exact research according to the methods of recent literary and historical criticism. First Semester.

14. Early Greek Philosophy. A study in the original Greek of the teachings (extant) of the Pre-Socratic philosophers. Translations and discussions. (Fairbanks' First Philosophers of Greece.) Second Semester, thirty-six exercises, [2].

[Offered in 1900-1901.]

PROFESSOR CAMPBELL.

Open only to those who are acquainted with the Greek language. A study of the later Greek philosophy is given under Greek 11.

15. Philosophy of History. Origin and development of Civilization. Critical historical studies accompanied by lectures and recitations. A good knowledge of the German language is requisite. First Semester, ancient period.

PROFESSOR CAMPBELL.

16. Advanced Ethics. Study and discussion of Kant's *Kritik der praktischen Vernunft*, or of Green's Prolegomena. Second Semester.

Courses 13, 15, and 16 are intended for graduate students, hours and days to be arranged with the instructor. They may, however, be elected by undergraduates who have taken all the preceding courses in Philosophy.

PEDAGOGY

DR. HORNE

The general aim of the courses here given is threefold :

(1) To acquaint college men with the nature of education and of its function in society ; (2) to prepare men for the profession of teaching ; (3) to fit men to direct educational activities as school superintendents, principals, members of governing boards, etc.

The courses cover the main aspects of education, its theory, its history, its science, and its practice. The theory of education, a psychological account of the genesis of the power of the mind and the nature of the main influences that educate, is presented in

Course 1. The history of education, both systems and educators, is presented in Course 2. The science of education, method in teaching, is presented in Course 2 of the Graduate Department of Pedagogy. The practice of education, problems of school supervision and management, together with a further consideration of the theory of physical, intellectual, and moral education, and a discussion of contemporary problems of education, are presented in the Pedagogical Seminary.

Courses 1 and 2 are intended for Seniors and are general and introductory. The Pedagogical Seminary and the Science of Education are for Graduate Students and are professional in character.

1. The Philosophy of Education. This course attempts two things, (1) to define the nature of the mind and its growth from the lower to its higher powers; (2) to characterize the influence upon the mind of each of the institutions of society that educate, viz., the family, the school, the state, the church; with especial reference to the educational influence of the disciplines of the school, viz.: Mathematics, Science, Philosophy, Literature, and History. (Harris, *Psychologic Foundations of Education*) and assigned private readings. First Semester, fifty-four exercises, [3].

Open to Senior Class.

2. The History of Education. This course will treat the subject as a part of the History of Civilization, and will contain a general survey of past educational theory and practice. The educational ideals of the far East, Greece, Rome, and the Middle Ages will be considered in outline. Especial attention will be given to the history of education and teaching in Europe since the Renaissance, and some time will be devoted to contemporary education in the United States. The purpose throughout will be to enable the student wisely to interpret present educational aims in the light of their historical evolution. (Painter's *History of Education* and Quick's *Educational Reformers*, and assigned private readings. Second Semester, fifty-four exercises, [3].

Open to Seniors, and to Juniors who have had Philosophy 1 after consultation with the Instructor.

GRADUATE DEPARTMENT OF PEDAGOGY

PROFESSOR C. D. ADAMS, DIRECTOR. PROFESSORS J. K. LORD, SHERMAN, WORTHEN, BARTLETT, PATTEN, FOSTER, W. A. ADAMS, EMERY, NICHOLS, DOW, HORNE

The Graduate Department of Pedagogy will be organized at the beginning of the college year, 1900-1901, to give a year of definite training to men holding the bachelor's degree who wish to prepare for the work of instruction or management in secondary schools. Special attention will be given to the courses which prepare directly for college.

The work of this year is not designed as the beginning of a course of study in a specialty looking toward the doctor's degree, but as a course fitting the candidate for the immediate work of teaching in the secondary schools. This will be obtained through two lines of work: the study of educational theory and history, and the study of one or more departments of elementary work, with a view to mastery of detail and methods of instruction. These courses will be supplemented by lectures by men engaged in secondary education, and by detailed reports of the student's own examination of the daily work in some of the best schools.

The centre of the work of the department will lie in the Pedagogical Seminary, of which every student of the department must be an active member, and in the advanced course of lectures on pedagogy required of all.

Grouped about this more general work are the courses in the several subjects as outlined below. Every student in the department must elect a major graduate course in some one subject; the time to be given to this course, and the collateral work that must accompany it, will be determined in each case by the instructor. The student may elect such additional courses as may be determined on conference with the Director, by whom all schedules must be approved. While the chief work of the year should be pedagogical, students will be expected to do some advanced work in their chosen fields of study under the direction of the several instructors. The nature of this work will be determined by the needs of the individual student.

The following graduate courses are offered; all of these courses continue through the year.

PEDAGOGY

1. *Pedagogical Seminary.* Subject for the year: problems in education; in particular, the nature of education, contemporary problems in education, and the art of school supervision. The nature of education in Course 1, page 132, is considered primarily from the intellectual point of view; here more especial reference will be had to physical and moral education. The contemporary problems considered will be those that centre especially about the secondary school, its aim, its function, its course of study, and its relation to the college. The discussion of school supervision will cover those problems that confront superintendents and principals of schools in their relation to the school committee, the community, their teachers, pupils, and school buildings. Soon after the Seminary is organized each member will select for personal investigation some special topic in education in which he is interested, and his results will be presented to the Seminary in not less than one written paper each semester. A few meetings will be devoted to practice teaching. Text-books, theses, written reports, and discussions. Two exercises a week, [2].

DR. HORNE.

2. *The Science of Education.* The practical application of the science of psychology to the art of teaching. This course will consist of a series of thirty-six lectures on educational method, considering in particular the meaning of education, the nature of mind, the disciplines by which it is educated, and the methods of instruction. The course is intended to furnish teachers a scientific basis for their school-room work. There will be required private readings and a thesis on the method of teaching that branch of study to which the student proposes to devote himself especially. Candidates for this course must have had the Junior Course in Psychology or its equivalent.

Students who have not had the undergraduate courses in the Philosophy of Education and the History of Education will be required to take those courses with Course 2 in this department. One exercise a week, [1].

DR. HORNE.

GREEK

The Greek course in Pedagogy will include a review of all preparatory work, beginning with the Greek Reader. It will involve drill in pronunciation, the study of method in teaching each subject, the discussion of the more difficult grammatical points, methods of acquiring skill in sight reading, of increasing vocabulary, and securing accuracy in detail.

Students in this course will be required to do a considerable amount of private reading in an author assigned by the instructor.

The undergraduate courses in Greek Language (Greek 13 and 14) are essential to the work of this year, and must be elected by graduate students who have not taken it as undergraduates.

The Greek course in Pedagogy is open to students who have taken the undergraduate courses in Greek, amounting to three hours a week, at least to the end of Sophomore year, and who are, in the judgment of the instructor, fitted to begin the work of the course.

PROFESSOR C. D. ADAMS.

LATIN

The work of these courses will be of two kinds. One will be advanced study intended to enlarge the student's knowledge of the Latin language and literature, and requiring some independent research. The other will outline the work of preparation for college, and will follow it through the Latin Reader, Caesar, and Vergil. Careful attention will be given to pronunciation, including hidden quantity, and its application to metrical reading, to syntax, to the knowledge of forms, to derivation, to reading at sight, to composition, and in general to the method and character of grammatical drill. In some cases undergraduate courses will be allowed or required in addition to the course outlined above.

Students wishing to enter the Latin courses in Pedagogy must have taken the undergraduate courses, amounting to three hours a week, at least to the end of Sophomore year, and must have given satisfactory evidence that they are qualified to enter upon the courses in Pedagogy.

PROFESSOR J. K. LORD.

ENGLISH

The English course in Pedagogy will consist of the detailed study of preparatory English and of advanced work in composition and literature. The review of preparatory work will be made with constant reference to methods of teaching both literature and composition, to the consideration of text-books, and to the correction of students' written work. The advanced course will consist of instruction in composition, with constant practice, and of the careful study of certain masterpieces of English and American literature, particularly of those books which are required for entrance to College. The whole aim of the course will be to fit the students to become teachers of English in secondary schools.

The English course in Pedagogy is open to students who have taken the undergraduate courses in English at least to the end of Junior year, or their equivalent in Senior year; and who, in the opinion of the instructor in charge of the course, are competent to pursue and profit by the course.

PROFESSOR EMERY.

FRENCH

The course offered in French in 1900-1901 will consist of a study and classification of French sounds, and drill in the pronunciation and reading aloud of French; a careful review of the essentials of French grammar, with exercises in composition to illustrate them; practice in writing French at dictation and in giving paraphrases and brief resumé's in French of a given text; discussion of methods of teaching French and of the value and place of various authors and text-books in a graded scheme of elementary instruction in the language.

Although this course is intended primarily as a language drill, a portion of it will be devoted to the special study of an author. In 1900-1901, Victor Hugo will be the author selected for this.

PROFESSOR DOW.

GERMAN

The work will consist of two parts: (a) Direct preparation for the teaching of German in preparatory schools. (b) Course of study of an advanced character.

(a) Careful study of methods, the difficulties of teaching pronunciation, the subject of composition, paraphrasing, dictation, word-formation, enlarging the vocabulary. Detailed study of courses in elementary German. Discussion of text-books. The geography and leading facts concerning Germany.

(b) Some particular author — perhaps Lessing or an advanced course in Goethe — or some special period of German Literature will be taken up. A considerable amount of reading will be supplemented by a critical study of particular writings. Study of the life of the author and his position in German Literature. Brief outline of German Literature. Advanced Composition and conversation.

PROFESSOR W. A. ADAMS.

This course will be open to those only who have had three years of German, and who, in the judgment of the instructor, are qualified to pursue this course.

MATHEMATICS

The work in Mathematics will require a three hours' course, both Semesters. Arithmetic, algebra, geometry, and trigonometry will be taken up in order, especial emphasis being laid on the work of the high schools in these subjects. A careful study will be made of at least three standard text-books in each subject; outlines will be formed and text-books compared. Methods of presenting the most important topics will be fully discussed. Each subject will be carried considerably beyond the high school limits. The historical development of each subject will be thoroughly investigated in connection with their natural order of sequence. Actual work accomplished in the classroom will be noted by personal observation throughout the year. The proper foundation for the course requires a fair knowledge of analytic geometry and calculus, and any who do not present these, on admission to the department must take a three hours' course in each for one Semester.

PROFESSORS SHERMAN AND WORTHEN.

PHYSICS

The work offered in the Physical department to fit men taking Physics as a major subject, for teaching in secondary schools, will consist of two advanced three-hour courses in Theoretical Physics, practice in Physical Manipulation, reading and criticism of elementary texts and popular lectures on physical subjects. The work in total will require an equivalent of at least six hours per week for one year.

The work offered for students who wish to make Physics a minor subject will require at least three hours per week throughout the year, and will include one three-hour course in Theoretical Physics, practice in simpler manipulation, reading and criticism of elementary texts.

In all cases an effort will be made to adapt the instruction to the individual needs of the candidate in view of his previous training. Physics, either as a major or a minor subject, should be chosen only after consultation with the department.

The condition for admission to the course of Pedagogy with Physics as a major subject is that the candidate shall have had in his undergraduate work Courses 1 to 5 inclusive in Physics, or their equivalents. For admission with Physics as a minor subject Courses 1 to 4 inclusive, or their equivalents, are required.

PROFESSOR NICHOLS.

CHEMISTRY

The course includes a careful review of elementary chemistry with discussion of the method of presenting the more difficult subjects, practice in the preparation of reagents and simple apparatus, and the comparison and criticism of various elementary text-books.

Each student will also do advanced laboratory work on special lines assigned by the instructor.

The course is open to students who have completed the first five undergraduate courses in Chemistry.

PROFESSOR BARTLETT.

BIOLOGY

The nature of the graduate course will vary to meet the requirements of the individual. It will ordinarily consist of training in the collection and preparation of the animals and plants useful for demonstration in secondary schools; the study of their life history as far

as practical in the field; the construction of home-made apparatus, and the methods of performing such simple experiments on living organisms as are suitable for the public schools; and criticism of methods of presentation of special topics in the field, laboratory, and class-room. Opportunity will be given to obtain practical experience in teaching by assisting the regular instructors in the elementary courses.

Candidates for this course must have done creditable work representing the equivalent of six hours a week for two years in Zoölogy and Botany.

The candidate should have taken at least one three-hour Semester course in each of the following subjects:—General Biology, Invertebrate Zoölogy, Comparative Anatomy of Vertebrates, Cryptogamic Botany and Phanerogamic Botany. The remaining time, of three hours for one year, may have been given to more advanced courses in either Zoölogy or Botany.

PROFESSOR PATTEN.

HISTORY

1. Students taking History as a major subject will be given a topic for investigation and written report involving some knowledge of how to find and use contemporary sources.

2. Students will read the recent discussions on teaching of History, examine the programmes of a few of the best schools in this country and Germany, and during college vacations observe in a few schools the actual teaching of the programme. After discussion with the instructor as to the place and method of History in the schools, the student will be asked to submit an ideal programme for the entire work in the schools, and where feasible to adapt this to the actual situation in some school or town. He will also be asked to submit an outline for his later use in teaching at least two courses in secondary schools. He will include in this outline references to several text-books, to books for supplementary reading, and to contemporary sources available for use in schools, and will be asked to criticise the text-books used, and to discuss the methods he would use in different courses and in the treatment of specific periods and lessons.

3. Candidates who have not already taken all electives may be assigned such undergraduate work as may be advisable to give necessary completeness to their training.

This course as a major subject will be open to those only who have taken three years of college History.

PROFESSOR FOSTER.

OUTLINE OF STUDIES

FRESHMAN YEAR

C indicates Classical Course.

L indicates Latin-Scientific Course.

S indicates Chandler Scientific Course.

All courses have the same studies after Sophomore year.

FIRST SEMESTER

C		L		S	
PRESCRIBED		PRESCRIBED		PRESCRIBED	
	hrs.		hrs.		hrs.
Greek 1	3	French 3, or }		French 3, or }	
Latin 1	3	German 3 }	3	German 3 }	3
English 1 a, 1 b	3	Latin 1	3	Graphics 1, or }	
Mathematics 1	4	English 1 a, 1 b	3	Biology 3	3
	—	Mathematics 1	4	English 1 a, 1 b	3
	13		—	Mathematics 1 a, 3	4
			13		13
ELECTIVE (choose one)		ELECTIVE (choose one)		ELECTIVE (choose one)	
	hrs.		hrs.		hrs.
French 1	3	German 1	3	German 1	3
German 1	3	French 1	3	French 1	3
	— 3		— 3		— 3
	15		16		16

SECOND SEMESTER

C		L		S	
PRESCRIBED		PRESCRIBED		PRESCRIBED	
	hrs.		hrs.		hrs.
Greek 2	3	French 4, or }		French 4, or }	
Latin 2	3	German 4 }	3	German 4 }	3
English 2 a, 2 b	3	Latin 2	3	English 2 a, 2 b	3
Mathematics 2, 4, 4 a	4	English 2 a, 2 b	3	Mathematics 6, 8	4
	—	Mathematics 2, 4, 4 a	4		—
	13		—		10
			13		
ELECTIVE (choose one)		ELECTIVE (choose one)		ELECTIVE (choose two)	
	hrs.		hrs.		hrs.
French 2	3	German 2	3	German 2 }	
German 2	3	French 2	3	French 2 }	3
	— 3		— 3	Graphics 2 }	
	16		16	Biology 10 }	3
					— 6
					16

Students presenting Mathematics II will take the Mathematics prescribed in the Chandler Scientific Course; those presenting only Mathematics I will take the Mathematics prescribed in the Classical or Latin-Scientific Courses.

SOPHOMORE YEAR

c indicates Classical Course.

L indicates Latin-Scientific Course.

s indicates Chandler Scientific Course.

All courses have the same studies after Sophomore year.

FIRST SEMESTER

C		L		S	
PRESCRIBED		PRESCRIBED		PRESCRIBED	
	hrs.		hrs.		hrs.
Physics 1	3	Physics 1	3	Physics 1	3
History 1 a	3	History 1 a	3	History 1 a	3
Greek 7 a, or }		Latin 3		Graphics 3	
Latin 3	3	French 3, or 5 }	3	French 3, or 5 }	3
	—	German 5, or 3 }	—	German 5, or 3 }	—
	9		9		9
ELECTIVE (choose 7 hrs.)		ELECTIVE (choose 7 hrs.)		ELECTIVE (choose 7 hrs.)	
	hrs.		hrs.		hrs.
Latin 3, or }		French 3, or 5, or }		French 3, or 5	3
Greek 7 a	3	German 5, or 3 }	3	German 5, or 3	3
French 1, or 3 }		Latin 3		English 3	4
German 1, or 3 }	3	English 3	4	Mathematics 11	4
English 3	4	Mathematics 5, 7, 9	4	Mathematics 5, 7, 9 }	4
Mathematics 5, 7, 9	4	Biology 1	4	Biology 1	4
Biology 1	4	French 7, or 9	2	French 7, or 9	2
French 7 }	2	German 9, or 7	2	German 9, or 7	2
German 7 }	2	Latin 5	2		—
Latin 5	2		—		16
Greek 3	2		16		
	—				
	16				

SECOND SEMESTER

C		L		S	
PRESCRIBED		PRESCRIBED		PRESCRIBED	
	hrs.		hrs.		hrs.
Physics 2	3	Physics 2	3	Physics 2	3
History 1 b	3	History 1 b	3	History 1 b	3
Greek 7 b, or }		Latin 4		Graphics 4	
Latin 4	3	French 4, or 6 }	3	French 4, or 6 }	3
	—	German 6, or 4 }	—	German 6, or 4 }	—
	9		9		9
ELECTIVE (choose 7 hrs.)		ELECTIVE (choose 7 hrs.)		ELECTIVE (choose 7 hrs.)	
	hrs.		hrs.		hrs.
Latin 4, or }		French 4, or 6 }		French 4, or 6 }	
Greek 7 b }	3	German 6, or 4 }	3	German 6, or 4 }	3
French 2, or 4	3	Latin 4		English 4	4
German 2, or 4	3	English 4	4	Mathematics 12 a	4
English 4	4	Mathematics 10, 12	4	Biology 2	4
Mathematics 10, 12	4	Biology 2	4	French 8, or 10	2
Biology 2	4	French 8, or 10	2	German 10, or 8	2
French 8	2	German 10, or 8	2		—
German 8	2	Latin 6	2		16
Latin 6	2		—		
Greek 8	2		16		
	—				
	16				

JUNIOR YEAR

FIRST SEMESTER

PRESCRIBED	hrs.	ELECTIVE	hrs.	ELECTIVE	hrs.
Economics 1	3	French 3	3	Physics 3	3
English 7	3	French 5	3	Physics 5	3
	—	French 7	2	Chemistry 1	3
	6	French 9	2	Biology 3	3
		Spanish 1	3	Biology 7	3
ELECTIVE	hrs.	German 5	3	History 3	3
Greek 5	3	German 7	2	History 7	3
Greek 13	3	German 9	2	Economics 3	3
Latin 7 a	4	German 15	3	Philosophy 1	2
Latin 9	3	Mathematics 15 a	1		
English 5	3	Mathematics 15 b	2		
English 5 a	3	Graphics 3	3		

(Each student must elect
9 or 10 hours.)

SECOND SEMESTER

PRESCRIBED	hrs.	ELECTIVE	hrs.	ELECTIVE	hrs.
Political Science 2	2	French 6	3	Chemistry 2 (or 4)	3
Philosophy 2 ¹	2	French 8	2	Biology 4	3
	—	French 10	2	Biology 6	2
	4	Spanish 2	3	Biology 8	2
		German 6	3	Biology 10	3
ELECTIVE	hrs.	German 10	3	Mineralogy 1	2
Greek 6	3	German 14	2	History 6	3
Greek 14	3	German 16	3	Economics 2	3
Latin 8 a	3	Mathematics 14	2	Sociology 2	3
Latin 12	1	Graphics 4 a	3	Philosophy 2	2
Latin 16	2	Engineering 2	3		
Latin 18	2	Physics 4	3		
English 6	3	Astronomy 2	3		
English 8	3	Astronomy 4	2		

(Each student must elect
12 to 14 hours.)

Studies with classes below, not previously taken, may be elected.

¹ Prescribed for those who did not elect Philosophy 1 in the First Semester.

SENIOR YEAR

FIRST SEMESTER

ELECTIVE	hrs.	ELECTIVE	hrs.	ELECTIVE	hrs.
Greek 5	3	German 15	3	Economics 3	3
Greek 15	1	Mathematics 17	2	Political Science 3	3
Greek 17	3	Mathematics 19	2	Political Science 5	3
Latin 7 a	4	Physics 5	3	Sociology 3 a	3
Latin 9	3	Astronomy 5	2	Philosophy 5	3
English 5	3	Chemistry 5	4	Philosophy 7	2
English 9	3	Chemistry 7	4	Philosophy 9	2
English 11	3	Biology 9	4	Philosophy 11	3
French 5	3	Human Anatomy 1	3		
French 9	2	Geology 1	3	(Each student must elect	
Spanish 1	3	History 3	3	14 to 16 hours)	
German 5	3	History 7	3		

SECOND SEMESTER

ELECTIVE	hrs.	ELECTIVE	hrs.	ELECTIVE	hrs.
Greek 6	3	German 10	3	History 12	3
Greek 12	3	German 14	2	Economics 4	3
Greek 18	3	German 16	3	Economics 6	2
Latin 8 a	3	Mathematics 16	2	Political Science 4	3
Latin 12	1	Mathematics 18	3	Political Science 6 a	3
Latin 16	2	Physics 6	3	Sociology 2	3
Latin 18	2	Chemistry 8	4	Sociology 4	3
Hebrew 2	3	Chemistry 10	4	Philosophy 6	2
English 6	3	Human Anatomy 2	1	Philosophy 8	2
English 10	3	Biology 6	2	Philosophy 10	2
English 12	3	Biology 8	2	Philosophy 12	3
French 6	3	Biology 10	3		
French 10	2	Mineralogy 1	2	(Each student must elect	
Spanish 2	3	History 6	3	14 to 16 hours.)	

Studies with classes below, not previously taken, may be elected.

THAYER COURSE

Engineering 3	72 half-days	Engineering 8	16 half-days
Engineering 4	58 "	Engineering 9	30 "
Engineering 5	56 "	Engineering 10	17 "
Graphics 5	40 "	Engineering 11	40 "
Engineering 6	60 "	Engineering 12	18 "
Engineering 7	50 "	Graphics 6	10 "

PROPORTION OF PRESCRIBED AND ELECTIVE STUDIES

The same number of exercises, prescribed and elected, is required in each of the three courses.

In the Freshman year, thirteen exercises a week are prescribed, and three exercises a week must be elected.

In the Sophomore year, nine exercises a week are prescribed, and seven exercises a week must be elected.

In the Junior year, on the average about one-fourth of the exercises are prescribed.

In the Senior year, all exercises are elective. Optional studies also are offered during this year.

RULES GOVERNING THE ELECTION OF STUDIES

(1) Every student, in making his elections, must meet the requirements and conform to the conditions of the studies he may choose, as set forth above in the "Departments of Instruction," and in the "Outline of Studies." The choice of any elective involves the same requirement in respect to attendance and scholarship as for a prescribed study.

(2) Elections for each Semester must be communicated to the Dean, in writing, on or before the last Saturday but two of the Semester preceding.

(3) A student may elect studies assigned to a class below his own, subject to the approval of the instructor concerned. No student will be allowed to elect a study with a class above his own, or any group of electives involving with his required courses more than a total number of sixteen exercises a week, except by vote of the Faculty.

(4) Any student failing to make his elections at the specified time shall pay to the College Treasurer three dollars.

(5) Any student who, having made his elections, desires to change, shall make written application to the Dean, with a statement in full of his reasons; but

(6) No changes from one elective study to another may be made after the student has begun work in the study first chosen.

(7) The Faculty will ordinarily withdraw any elective study not chosen by at least four students.

EXAMINATIONS

The regular examinations in each course of study are held in the middle and at the close of the year.

A student who fails to pass any regular examination will have but one opportunity to make good the deficiency, and failing in this second trial, which must be taken in the half-year following the original examination, he will be obliged to repeat the course with the next class.

REPORTS OF STANDING

A report is sent twice yearly to the parent or guardian of each student, giving his standing in the class.

The standing given is, except where there are unexcused absences, the general average for scholarship. This average is determined by combining the average of recitation marks with that of examination marks in all the studies of the Semester, in the ratio of three to one.

Upon the scale used, 100 is the highest, and 0 the lowest mark; but no standing is obtained when the student's recitation or examination mark is below fifty in any study.

For each unexcused absence from church and chapel, standing is lowered *one*. (Thus an average for scholarship of 85, with three unexcused absences, gives a standing of 82.)

The student's rank is determined by his position in one of six grades, viz.: Excellent, (E.); Very good, (V. G.); Good, (G.); Fair, (F.); Poor, (P.); Deficient, (D.); corresponding to the numerical averages, 93-100; 85-93; 75-85; 65-75; 50-65; 0-50.

The co-operation of parents with the Faculty is earnestly solicited, in their efforts to maintain a high standard of scholarship and deportment in the College, and to promote the welfare of all committed to their care.

LOSS OF STANDING IN CLASS

A student loses standing in his class when he is obliged to repeat with a lower class courses covering five or more hours a week in either Semester. This loss of standing may arise from failure to receive a recitation rank of 50 in the work of five hours, or from failure in a second examination of the work of five hours, or from a combination of the two. Loss of standing causes enrollment in a lower class.

ATTENDANCE AT EXERCISES

In Freshman year, attendance is required continuously through each term, at the morning, forenoon, and afternoon exercises. For Sophomore, Junior, and Senior years, the hours at which exercises occur are announced in a time-table published each Semester.

The *morning* exercise takes place on each week-day, either at 8.10 A. M., or (when there are two divisions in a subject) at 8.10 and 9 A. M. The *forenoon* exercise takes place on each week-day either at 11 A. M., or at 10 and 11 A. M. (In winter the morning and forenoon exercises begin one-half hour later.) The *afternoon* exercise takes place on Mondays, Tuesdays, Thursdays, and Fridays, either at 3 P. M., or at 2 and 3 P. M.

Attendance is further required of all students at daily college prayers, on week-days at 7.50 A. M. (in winter 8.15 A. M.), and on Sundays at 5.30 P. M. ; also at public worship on Sunday forenoon.

DEGREES

The degrees of Bachelor of Arts, Bachelor of Letters, and Bachelor of Science are conferred by the Board of Trustees, on the recommendation of the Faculty, upon those who have duly completed the Classical, Latin-Scientific, and Chandler Scientific courses, respectively. For degrees with Honors, see page 154.

The degrees of Master of Arts, Master of Science, and Doctor of Philosophy will be conferred under the following conditions:

(1) The degree of M.A. will be conferred upon Bachelors of Arts and Bachelors of Letters of the College who shall have pursued, under the approval of the Faculty, a course of liberal, non-professional study, in residence at the College for one year, or, provided the approval of the Faculty shall have been first obtained, in the graduate department of any other College or University for a similar period, and shall have passed an examination upon such course of study with high credit, and presented a satisfactory thesis upon the special subject of such study.

(2) The degree of M.A. will also be conferred upon Bachelors of Arts and Bachelors of Letters of the College of at least three years' standing, who shall have pursued, under the approval of the Faculty, a course of liberal, non-professional study, while not in residence at any College or University, for a period equivalent to that prescribed in the case of resident graduate students (not less than one year), and shall have passed an examination upon such course of study with high credit, and presented a satisfactory thesis upon the special subject of such study.

(3) The degree of M.S. will be conferred upon Bachelors of Science of the College under the same conditions that are prescribed for the degree of M.A.

(4) The Faculty at its discretion may select one person from the candidates for the Master's degree in any year, to read and to defend his thesis in public at Commencement.

(5) Persons who have received the Bachelor's degree in any other College, whose requirements for that degree are equal to those of this College, may be recommended for the corresponding Master's degree on the same conditions that are prescribed for graduates of this College, except that the specified course of liberal, non-professional study, of not less than one year, must be pursued in residence at this College.

(6) Resident candidates for the degrees of M.A. or M.S. shall be charged the same tuition as undergraduates. They shall be charged also a fee of ten dollars for the degree. Non-resident candidates for the same degrees shall be charged a fee of ten dollars for registration and of twenty-five dollars for examination and verification of thesis and for the degree.

(7) The degree of Ph.D. is at present offered in the departments of Biology, Geology, and Sociology only. Whenever other departments, singly or in groups, have sufficient teaching force and equipment to offer courses leading to this degree, announcement will be made in the catalogue. Meanwhile, graduates of the College who wish to become candidates in departments not mentioned above, are advised to seek the degree at graduate schools which are prepared to confer it.

(8) A candidate for the degree of Ph.D. must have received a Bachelor's degree from this College or from a College whose degrees are accepted as equivalent to its own, and he must satisfy the Committee on Graduate Instruction that he is properly prepared for the graduate work in the department in which he is an applicant for a degree. He must pursue graduate studies for at least three years after taking his Bachelor's degree. Two of these years must be in residence at this College. The other year may be spent in graduate study at an approved institution.

(9) Graduates of this College who have received the degree of M.A. or M.S. under the rules in force since 1894, and in courses which form a part of the work announced by the department as leading to the degree of Ph.D., may count this work as a year toward the degree.

(10) Candidates for the degree of Ph.D. are required to present themselves for examination in three related subjects, a major and two

minor. The requirements in each minor subject shall not be less than all the required and elective undergraduate courses in that subject, or their equivalent. The graduate work in the major subject will consist largely of original investigation of a definite problem, the results of which are to be embodied in a thesis that shall contain some original contribution to knowledge, together with an historical and critical summary of the pertinent literature.

(11) Candidates for the degree of Ph.D. are charged the same tuition as undergraduates. They are also charged a fee of twenty-five dollars for the degree.

SPECIAL REGULATIONS

(1) Applicants for an advanced degree, whether resident or non-resident, are required to announce to the President on a blank which will be furnished by the Dean of the Faculty on application, as early as the fifteenth of September of each year, the particular branches of study to which they wish to give attention during the year, together with all needed statistics and facts. The supervision of their work will then be entrusted to the Committee on Graduate Instruction.

(2) The subject of the thesis must be announced to the President as early as the first of February of the college year in which the applicant expects to take the degree.

(3) The thesis must be completed and put into the hands of the chairman of the Committee on Graduate Instruction as early as the first of June.

(4) Every non-resident candidate must send a written report of the progress of his work to this committee through the head of the department at least twice a year, in December and in June.

HONORS

COMMENCEMENT APPOINTMENTS

The speakers at Commencement are appointed by the Faculty on the basis of excellence in general scholarship for the entire college course. The appointees are grouped into classes in accordance with their relative rank.

RUFUS CHOATE SCHOLARS

Students who attain a rank of 92 are designated "Rufus Choate Scholars." The designation is entirely a term of honor and carries with it no pecuniary allowance. The assignment is made at the close of each year, and the names of such scholars are to be announced by the Dean, and published in the annual catalogue.

HONORS

For excellence in special departments of study, three grades of honors are awarded by the Faculty, — Honorable Mention, Honors, and Special Honors.

HONORABLE MENTION

Honorable Mention is awarded in the following courses of study to students who obtain an average rank of 93 per cent in the courses specified below for each department:

GREEK, for Courses 1, 2, 3, and 9; or for Courses 1, 2, 6, and 7 or 9.

LATIN, for Courses 1, 2, 3, 5, and 6; or for Courses 1, 2, 3, 4, and 6 or 7.

ENGLISH, for Courses 1 a, 2 a, 3, and 4.

FRENCH, for Courses 1, 2, 3, and 4; or for Courses 3, 4, 5, and 6.

GERMAN, for Courses 1, 2, 3, and 4; or for Courses 3, 4, 5, and 6.

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MATHEMATICS, for Courses 1, 2, 4, 4 a, 5, 7, 9, 10, and 12; or for Courses 1 a, 3, 6, 8, 11, and 12 a.

GRAPHICS, for Courses 1, 2, 3, 3 a, and 4.

PHYSICS, for Courses 1, 2, and either 3 or 5.

ASTRONOMY, for Courses 2, 4, and 5.

CHEMISTRY, for Courses 1, 2, and 5 or 7.

GEOLOGY, for Courses 1, 4, and 5.

MINERALOGY, for Courses 1, 2, and 3 and Geology 1.

HISTORY, for Courses 1 a, and 1 b, and any two courses in Junior year.

ECONOMICS, for Courses 1, 2, 3, and 4.

POLITICAL SCIENCE, for Courses 2, 3, 4, and 5.

POLITICAL SCIENCE, for Courses 3, 6, and Economics 1 or 3, and History 4 or 5.

PHILOSOPHY, for Courses 1, 8, and 9.

The names of students receiving Honorable Mention are printed in the annual catalogue published next after the award.

HONORS

Honors are awarded in the following departments of study to students who maintain an average rank of 93 per cent in the courses specified below for each department, and who in addition pass with credit a special examination at the close of the work :

GREEK, one three-hour course in each Semester of Junior and Senior years.

LATIN, one three-hour course in each Semester of Junior and Senior years.

ENGLISH, Courses 1 (a), 2 (a), 3, 4, 5, 6, 7, 8.

FRENCH, Courses 5, 6, 11, 12, or Courses 11, 12, 13, 14.

GERMAN, any three of Courses 7, 8, 9, 10, and Courses 15, 16.

MATHEMATICS, Courses 9 and 10, or 11, 12, or 12 a, 13, 14, 15, 16, 17, 18.

GRAPHICS, all courses in Civil Engineering.

PHYSICS, Courses 3, 4, 5, and any one of Courses 6, 8, 10.

CHEMISTRY, all courses offered, except 10, and either 7 or 8.

ZOOLOGY, courses in Biology 1, 2, 4, 8.

BOTANY, courses in Biology 1, 2, 3, 10.

HISTORY, four elective courses, not included in Honorable Mention, and one of Courses 7, 8, 10.

SOCIOLOGY, all the undergraduate courses.

PHILOSOPHY, Courses 2, 5, 7, 10.

SPECIAL HONORS

Special Honors are awarded in the departments specified below to those who fulfil the conditions mentioned hereafter.

Any student who attains the average rank of 85 per cent in the studies of Junior year, or who attains 93 per cent in any department, with an average of at least 80 per cent in all departments, in the studies of Sophomore and Junior years, will be allowed to become a candidate for Special Honors in any department in which he has attained a rank of 90 per cent. Students who are thus entitled to become candidates for Special Honors, and who wish to do so, must give written notice to that effect to the Dean of the Faculty and to the officer in charge of the department in which Special Honors are sought, on or before the 15th of October of their Senior year, and must fulfil the following conditions :

(a) They must take the elective courses indicated below in the department in which they seek Special Honors, and must also pursue such additional courses of study and collateral reading or investigation as shall be prescribed. At the close of the year they must pass a special examination covering their work in the department, including the courses of collateral reading or investigation presented for Special Honors, and designed to test the range and accuracy of their work.

(b) They must also, if required, present theses satisfactory to a committee appointed by the Faculty, embodying the result of their special study. The subjects of theses shall be announced not later than March 1, and the theses must be handed to the Dean of the Faculty not later than June 10 of Senior year.

(c) They must maintain their general standard of scholarship, and if their average rank falls below 80, or if it falls below 70 in any one department in any Semester, they will be required to discontinue their work for Special Honors.

(d) No student will be allowed to become a candidate for Special Honors in more than one subject, without a special vote of the Faculty.

Special Honors may be sought in the following departments :

GREEK — Continuous work in Greek throughout the course, covering all Greek courses of Freshman year, two courses in Sophomore year, one of which must be a three-hour course, and an average of four hours a week in

Junior and Senior years. The candidate will do additional work, equivalent to at least one three-hour course for a year, to be assigned at the opening of Senior year; he will be examined on this work and on his general attainments in Greek at the end of Senior year. A thesis is required.

LATIN — Work in the elective courses of Junior and Senior years amounting to four hours a week; an examination on the work of some Latin author not covered in the course, and also a general examination upon Latin Literature, with more special reference to the period to which the particular author studied belonged. A thesis is required.

ANCIENT CLASSICS — Courses in Greek and Latin covering an average in each of three hours a week in Junior and Senior years. Special study in one of the two languages amounting to the work of a three-hour course for Senior year will be required, and the final examination will cover this study, as well as the general work in the two languages. A thesis in connection with the subject of special study may be required.

ENGLISH — All courses, with examinations on all courses of Junior and Senior years, and upon two authors outside the course, amounting to three hours for Senior year. A thesis will be required.

FRENCH — Courses 9, 10, 11, 12, 13, 14, with collateral reading and study. A thesis may be required.

GERMAN — Any two of Courses 7, 8, 9, 10 and Courses 13, 14, 15, 16, with collateral reading and study. A thesis will be required.

MATHEMATICS — The Directional Calculus and its applications. A thesis may be required.

PHYSICS — All courses and the completion of some simple research problem described in a thesis.

ZOOLOGY — Courses in Biology 1, 2, 3, 4, 8, 9, 12, with special laboratory work and collateral reading. A thesis may be required.

BOTANY — Courses in Biology 1, 2, and all the courses in Botany, with collateral reading and such additional work as may be indicated by the instructor.

HISTORY — Candidates must take all elective courses offered by the department, together with additional courses of study, collateral reading, and investigation. At the close of the year they must pass a special examination covering the work of the department and the additional work.

ECONOMICS — All courses, with collateral reading and study amounting to three hours a week for Senior year.

POLITICAL SCIENCE — Courses, 3, 4, 5, 6, with collateral reading and study amounting to three hours a week for Senior year.

PHILOSOPHY — Candidates must take at least eight courses, and do original, critical work in Greek philosophy, or in German philosophy. Thesis will be required.

Any student who has an average rank for his entire college course of 90 per cent, or who has received Honorable Mention in two departments and Honors in one department, or who has received Honorable Mention in one department and Special Honors in another, shall receive a degree *cum laude*.

Any student who has received an average rank for his entire college course of 92 per cent, or who has received Honorable Mention and Honors in two departments, or who has received them in one department, together with Special Honors in another, shall receive a degree *magna cum laude*.

Any student who has an average rank for his entire college course of 94 per cent, or who has received Honorable Mention and Honors in two departments, together with Special Honors in any department, shall receive a degree *summa cum laude*.

The names of recipients of Honors are printed on the Commencement programme and in the annual catalogue.

THE HENRY E. PARKER FELLOWSHIP

The value of the fellowship is \$500 a year, and may be held for two years. The holder of the fellowship shall be some graduate of the year of his appointment, recommended by the Faculty. If judged advisable by the Faculty, he may be allowed a year for special preparation before entering upon the duties of his fellowship or receiving the income attached to it. During the time in which he is upon the fellowship he shall pursue advanced studies, not professional, subject to the approval of the Faculty. He shall also regard himself as committed to an engagement as a teacher in the College for the year after his fellowship expires, in case the College requires his services, at the usual compensation for the grade of his appointment.

RESIDENT GRADUATE SCHOLARSHIPS

Four scholarships, yielding three hundred dollars each for one year, have been provided for graduates of the College who wish to continue their studies in residence. These scholarships are designed particularly for those who intend to teach, but are not limited to those who have this end in view.

SCHOLARSHIPS AND BENEFICIARY AID

I—ENTRANCE SCHOLARSHIPS:

Four scholarships for Freshman year, based upon entrance examinations, are available for each entering Class.

They are as follows :

The Samuel Leland Powers Scholarship	
established by Samuel Leland Powers, of Boston . . .	\$100
The David Jewett Scholarship	
given by his sons, Rev. William R. Jewett and David B. Jewett	100
The New Hampshire State Scholarship	
offered to any applicant from New Hampshire, and applied to tuition and to room-rent in the College Buildings . . .	125

The College Scholarship

open to all applicants, and applied to tuition and to room-rent in the College Buildings \$150

The competition for these scholarships is regulated by the following conditions:

(1) Examinations are to be taken at the College or at places specified in the catalogue (pages 82-83) for the June examination.

(2) No scholarship will be granted to an applicant who does not obtain a rank of at least 85 on a scale of 100,—that being the percentage which indicates Honor rank at graduation.

(3) Scholarships will be assigned on the merits of the examination.

(4) These scholarships are open to those only who require pecuniary aid.

II — CLASS SCHOLARSHIPS:

Twelve scholarships, four to each class, corresponding in amounts to those named under Entrance Scholarships, are available to applicants from the Sophomore, Junior, and Senior Classes. Of these, six are of \$100 each, covering tuition,—three of \$125, covering tuition and room-rent in the College Buildings (open to students from New Hampshire only),—three of \$150, covering tuition and room-rent in the College Buildings.

These scholarships are awarded upon the basis of the work of the year preceding that for which they are assigned. In ordinary cases none will be given except to those who attain a grade of 90 on a scale of 100, and above that grade they will be assigned according to rank. Like the Entrance Scholarships, they are open to those only who require pecuniary aid.

III — BENEFICIARY AID, associated with merit in scholarship:

Beneficiary aid is given chiefly in the form of scholarships, of which there are about two hundred, specified below, each yielding an annual income of fifty dollars. This amount may be increased through faithfulness and proficiency in study to sums of seventy-five and eighty-five dollars.

Scholarships of this order are of three grades:

GRADE A — Scholarships of \$50 each, given as beneficiary aid, but requiring full standing in class,—with rank of at least 50 on a scale of 100.

GRADE B — Scholarships of \$75, including beneficiary aid, given to those who attain a rank of 75 (70 in Freshman year) and also to those who, without attaining this rank, show marked faithfulness in attendance and study.

GRADE C — Scholarships of \$85, including beneficiary aid, given to those who attain a rank of 85.

The amount of the scholarship in grades B and C, in excess of the \$50 as beneficiary aid, is determined by the student's attendance and work Semester by Semester. No allowance is made for this additional amount in the payment of tuition, unless the rank of the previous Semester has been determined. Students having deficiencies must pay on the basis of beneficiary aid only.

The following rules govern the bestowal of beneficiary aid, and, with the exception of the first, are applicable to all scholarships :

(1) Applications accompanied by suitable testimonials must be made in writing to the President in due season.

(2) No student who is not in full standing shall receive beneficiary aid or a scholarship.

(3) In addition to the restrictions which may be imposed by the donors of scholarships, the conditions of careful economy in personal expenses and of abstinence from intoxicating liquors are imposed by the College. The application for the renewal of beneficiary aid from year to year must be accompanied by a complete statement of income and expenditure during the year preceding.

(4) Beneficiary aid will be assigned at the beginning of each year, and any change may be made that the Faculty deems desirable.

The income applicable to beneficiary aid is derived as follows:

I — From lands and funds given by the State of New Hampshire, with an annual income equivalent to seventy scholarships. These scholarships are limited to residents of the State.

II — From funds amounting to \$14,000 raised by subscription in 1823, "for the education of pious young men in Dartmouth College studying for the gospel ministry." The income from these funds is applied in fourteen scholarships.

III — From funds amounting to \$7,000 given by Mrs. Clark of Portsmouth, New Hampshire, and by other persons. The income from these funds is devoted to students studying for the ministry, and is applied in seven scholarships.

IV — From funds amounting to \$6,100 given by the Conferences of Grafton, Hillsborough, Cheshire, Merrimack, Rockingham, and Strafford Counties in New Hampshire, also devoted to students for the ministry, and constituting six scholarships.

V — From funds amounting to \$11,000 given by Jeremiah Kingman, of Barrington, New Hampshire, to found the "Kingman Scholarships," eleven in number. "In applying the income annually of one thousand dollars, the preference shall be given to some student from the town of Strafford; and in applying the income of the other ten thousand dollars, preference shall be given to one student from each of the ten counties in the state of New Hampshire."

VI — From funds amounting to \$10,000 given by Mrs. Betsey Whitehouse, of Pembroke, New Hampshire, to establish the "John S. Jenness Foundation." By the provisions of the donor, "A worthy and needy applicant from each of the ten counties of the State of New Hampshire shall receive, by preference, the income of one of these scholarships." Another gift of \$1,000 by Mrs. Whitehouse is included in the following general list.

VII — From funds given to found scholarships as follows :

The Aiken Scholarship	
given by Jonas B. Aiken of Franklin, N. H.	\$1000
The William Lawrence Baker Scholarship	
given by Mrs. Caroline A. Lawrence of Winsted, Conn.	1000
The George W. Benson Scholarship	
given by Mrs. Maria T. Benson of Lawrence, Mass.	1000
The Bouton Scholarship	
given by the family of Nathaniel Bouton, D.D., of Concord, N. H.	1500
The Richard Boylston Scholarship	
given by the family of Richard Boylston of Amherst, N. H.	1000
The Joseph P. Brooks Scholarship	
given by Joseph P. Brooks of Chicago	1000
The Emily Clark Brown Scholarship	
given by Edward J. Brown, M.D., of Minneapolis, Minn.	1000
The Burleigh Scholarship	
given by George W. Burleigh of Great Falls, N. H.	1000
The Carr Scholarship	
given by William Carr of Newport, N. H.	1000
The George E. Chamberlain Scholarships	
given by Mrs. Addie D. McAlpine of New York City	5000
The Cilley Scholarship	
given by Jacob G. Cilley of Manchester, N. H.	1000

The Lizzie C. Converse Scholarship		
given by Miss Sarah E. Converse of Burlington, Vt.	.	\$1000
The Cushing Scholarship		
given by G. W. B. Cushing of New York City	.	1000
The Dodge Scholarship		
given by William E. Dodge of New York City	.	1000
The Edgell Scholarship		
given by George S. Edgell of New York City	.	1000
The John M. Ellis Scholarship		
given by Mrs. Josephine M. Ellis of Milford, N. H.	.	1000
The Horace Fairbanks Scholarship		
given by Horace Fairbanks of St. Johnsbury, Vt.	.	1000
The Thaddeus Fairbanks Scholarship		
given by Thaddeus Fairbanks of St. Johnsbury, Vt.	.	1000
The Fairfield Scholarship		
given by Josiah H. Fairfield of Hudson, N. Y.	.	1000
The Fogg Scholarship		
given by William H. Fogg of New York City	.	1000
The Richard Foster Scholarship		
given by Sarah B. Foster of Washington, D. C.	.	2500
The Gookin Scholarship		
given by Warren D. Gookin of New York City	.	1000
The Gordon Scholarships		
given by Nathaniel Gordon of Exeter, N. H.	.	2000
The Greene Scholarship		
given by William H. Greene of Buffalo, N. Y.	.	1000
The Grimes Scholarship and		
The Mrs. James W. Grimes Scholarship		
given by James W. Grimes, LL.D., of Burlington, Ia.	.	2000
The Mary Harris Scholarship		
given by Mrs. Mary Harris of Manchester, N. H.	.	1000
The Tracy H. Harris Scholarship		
given by Tracy H. Harris of New York City	.	1000
The Mrs. Adaline Hartshorn Scholarship		
given by Mrs. Adaline Hartshorn of Manchester, N. H.	.	
(awarded preferably to sons of missionaries)	.	1000
The Haven Scholarships		
given by bequest of Eliza A. Haven to establish six scholarships		9000
The Hitchcock Scholarship		
given by Hiram Hitchcock of Hanover, N. H.	.	1000
The Ephraim E. Howard Scholarships		
given by James T. Howard of St. Johnsbury, Vt.	.	5200
By the provisions of the donor not available at present		

The Hunt Scholarship	
given by Seth B. Hunt of New York City	\$1000
The Hutchinson Scholarship	
given by John B. Hutchinson of New York City	1000
The Leonard Jewett Scholarship	
given by Rev. Leonard Jewett of Hollis, N. H.	700
The Kendrick Scholarship	
given by Professor Henry I. Kendrick of West Point, N. Y. . .	1000
The Kimball Scholarship	
given by Benjamin A. Kimball of Concord, N. H., annually, \$60	
The Kittredge Scholarship	
given by Moses Kittredge, of St. Johnsbury, Vt.	1000
The Knight Scholarship	
given by Miss C. Knight	1000
The Henry H. Ladd Scholarships	
given by Henry H. Ladd of Portsmouth, N. H.	5000
The Betsey R. Lang Scholarships	
given by Mrs. Betsey R. Lang of South Boston, Mass. . . .	5000
The Mary Langdon Scholarship	
given by William T. Savage, D.D., of Godfrey, Ill.	1000
The Lawrence Scholarship	
given by Aaron Lawrence of Amherst, N. H.	1000
The Lue Lawrence Scholarship	
given by Miss Sarah Lucretia Lawrence of Amherst, N. H. .	1000
The Mary H. Lord Scholarship	
given by Mrs. Mary H. Lord of Andover, Mass.	1000
The Sarah Reid McMurphy	
The Henry James McMurphy	
The Abby Frances McMurphy Scholarships	
given by bequest of Mrs. Sarah R. McMurphy of Derry, N. H. .	5000
The William G. Means Scholarships	
given by William G. Means of Boston, Mass.	2000
The Morton Scholarship and	
The Daniel O. Morton Scholarship	
given by Levi P. Morton of New York City	2000
The Nesmith Scholarship	
given by George W. Nesmith of Franklin, N. H.	1000
The Daniel Nettleton Scholarship	
given by Fred H. Nettleton of St. Paul, Minn.	1000
The William W. Niles Scholarship	
given by William W. Niles of New York City	1000
The Albert Onion and	
The John P. Williams Scholarships	
given by Mrs. Abigail W. Onion of Chester, Vt.	2000

The Parker Scholarship			
Memorial of Edith Florence Parker			
given by Joel Parker, LL.D., of Cambridge, Mass.	.	.	\$1000
The Peaslee Scholarship			
given by Professor Edmund R. Peaslee, M.D., LL.D., of New York City	.	.	1000
The William Rand Scholarship			
from Estate of William Rand of Rochester, N. H.	.	.	1000
The Richards Scholarship			
given by Dexter Richards of Newport, N. H.	.	.	1000
The Joel Richardson Scholarship			
given by James B. Richardson, LL.D., of Boston, Mass.	.	.	1000
The John Jones Sargent Scholarship			
given by Jonathan E. Sargent, LL.D., of Concord, N. H.	.	.	1000
The Roswell Shurtleff Scholarship			
given by Mrs. Anna P. Emerson of Hanover, N. H.	.	.	1500
The David A. Simmons Scholarship			
given by David A. Simmons of Roxbury, Mass.	.	.	1000
The Stanton Scholarship			
given by Samuel Stanton, of London, Eng.	.	.	1000
The Stephen N. Stockwell Scholarship			
given by Stephen N. Stockwell of Boston, Mass.	.	.	1000
The Stone Scholarship			
given by Mrs. Benjamin P. Stone of Concord, N. H.	.	.	1000
The Samuel Swan Scholarship and			
The Janet Swan Scholarship			
given by Miss Elizabeth S. Swan of Peterborough, N. H.	.	.	2000
The Tenney Scholarship			
given by William Tenney of Hanover, N. H.	.	.	1000
The William C. Todd Scholarship			
given by William C. Todd of Atkinson, N. H.	.	.	1000
The Trussell Scholarship			
given by J. Trussell of Enfield, N. H.	.	.	1000
The Twombly Scholarship			
given by Horatio N. Twombly of New York City	.	.	1000
The John W. Wallace Scholarship			
given by Mrs. Celia Whipple Wallace of Chicago	.	.	1000
The Wheeler Scholarships			
given by David E. Wheeler of New York City	.	.	2000
The Thomas Whipple Scholarship			
given by Mrs. Celia Whipple Wallace of Chicago	.	.	1000
The Mrs. Betsey Whitehouse Scholarship			
given by Mrs. Betsey Whitehouse of Pembroke, N. H.	.	.	1000
The Dr. Chase Wiggin Scholarship			
given by Dr. Chase Wiggin of Providence, R. I.	.	.	2000

By the provisions of the donor two-thirds of the income is awarded

Luke Wood Fund for Scholarships

Bequest of Martha W. Brown of Hartford, Conn. . . . \$4850

The Dutton Woods Scholarship

given by Miss Maria Woods of Concord, N. H. . . . 1000

The Woodward Scholarship

given by Dr. Ebenezer Woodward of Quincy, Mass. . . . 1000

Some additional aid is furnished in the way of compensation to those students who are appointed by the Dean as monitors and by the Librarian as assistant librarians.

PRIZES

I. RHETORICAL PRIZES. 1. *The Grimes Prizes.* Two prizes, of *twenty-five* and *fifteen* dollars respectively, given by JAMES W. GRIMES, LL.D., of Iowa, are offered to the Senior Class for excellence in English Composition.

2. *The Lockwood Prizes.* Two prizes of *twelve* and *eight* dollars respectively, given by LE GRAND LOCKWOOD, of New York, are offered to the Junior Class for excellence in English Composition.

3. *Pacific Coast Alumni Association Prize.* A prize of *fifteen* dollars, given by the Dartmouth Alumni Association of the Pacific Coast, is offered to the Sophomore Class for the best essay on a subject in American Literature.

II. ORATORICAL PRIZES. 1. *The Rollins Prizes.* The sum of *one hundred* dollars, annually contributed by the heirs of Edward H. ROLLINS, of Concord, New Hampshire, is awarded in three prizes of *forty*, *thirty-five*, and *twenty-five* dollars respectively, for excellence in Declamation, to be contested for by three students from each of the three lower classes in the College.

2. *The Smith and Class of 1866 Prizes.* Two prizes, of *thirty* and *twenty* dollars respectively, given by JUSTIN H. SMITH, of Boston, are offered to the Senior Class for excellence in Extemporaneous Oratory, to be contested for by four students. Two prizes, of *thirty* and *twenty* dollars respectively, annually contributed by WALDEMER OTIS, of New York City, in the name of the CLASS OF 1866, are offered to the Junior and Sophomore Classes for excellence in Orig-

nal Orations, to be contested for by two students from each of these classes.

III. LATIN PRIZES. Two prizes, of *twelve* and *eight* dollars respectively, established by the CLASS OF 1846, are offered to the members of the Junior Class who shall maintain the best positions and pass the best examinations in the studies of the Latin Department, including Latin Composition.

IV. GREEK PRIZES. Two prizes of *twenty-five* and *fifteen* dollars respectively, established by the joint gift of EDWARD SPALDING, LL.D., and JOSIAH G. DAVIS, D.D., and named the ATHERTON PRIZES, are offered to the members of the Junior Class who shall maintain the best positions and pass the best examinations in the prescribed and elective studies of the Greek Department.

V. MATHEMATICAL PRIZES. Two prizes, of *twenty-five* and *fifteen* dollars respectively, given by GENERAL SYLVANUS THAYER, LL.D., of Braintree, Massachusetts, are offered to the members of the Sophomore Class for excellence in Analytic Geometry and the Differential and Integral Calculus.

VI. MODERN LANGUAGE PRIZE. By the will of THOMAS J. W. PRAY, M.D., of Dover, New Hampshire, the sum of *one thousand* dollars has been bequeathed to the College, "the income of which shall be given to the best scholar, throughout the entire collegiate course, in Modern Languages."

VII. PRIZE FOR GENERAL IMPROVEMENT. A prize of *forty* dollars, given by JAMES W. GRIMES, LL.D., is annually awarded to "that member of the Senior or Graduating Class, who, in the judgment of the College Faculty, has made the most satisfactory progress during his College course, taking into consideration his preparation for the course when he entered."

VIII. FREE-HAND DRAWING. Two prizes, one of *fifteen* dollars and one of *ten* dollars, are offered by DAVID H. ANDREWS, B.S., of Newton, Massachusetts, to the members of the Freshman Class (Chandler Scientific Course) for excellence in Free-hand Drawing.

IX. MECHANICAL DRAWING. Two prizes, of *fifteen* and *ten* dollars respectively, are offered by CHARLES R. SPALDING, B.S., of Chicago, to the members of the Sophomore Class (Chandler Scientific Course), for the best sets of Mechanical Drawings, comprising Isometrical, Tinted, and Descriptive Geometry Drawings, and Surveying Plots.

TERM BILLS

[*Extracts from the "Laws of the Trustees"*]

Chapter IX. 1. "Each student shall be charged for tuition, including all incidentals, except the use of the Library (\$6.00, a fixed charge) and Laboratories (according to use), one hundred dollars a year. Room-rent in the college dormitories will be determined by choice of rooms, heat, care, etc."

2. "The term bills of each year are to be paid in two equal instalments. The first payment is due at the beginning of the first Semester (students entering College pay first charge for tuition before matriculation); the second on March 10 succeeding. Any delay in payment beyond seven days from these dates, without excuse from the President, shall subject the student to loss of standing. Any students failing to make payment within this time shall be entered upon the books of the treasurer as delinquents, and shall be so reported to the President, and notification of the delinquency shall be given to parents or guardians."

3. "No student shall be dismissed from College on request unless he shall have paid all his term bills, including the current term; nor shall any student be entitled to a degree until all his College bills are discharged."

Entering students who have been granted scholarship aid will be credited with \$25 on their tuition bill of the first Semester, leaving \$25, balance of tuition, and \$3 Library tax, to be paid before matriculation; if the scholarship of such student, to be determined at the end of the first Semester, entitles him to a larger credit, allowance will be made upon the term bill of the second Semester.

Students receiving scholarship aid to the amount of \$50 will pay \$25 tuition and \$3 Library tax each Semester.

Students receiving scholarship aid to the amount of \$75 will pay \$12.50 tuition and \$3 Library tax each Semester.

Students receiving scholarship aid to the amount of \$85 will pay \$7.50 tuition and \$3 Library tax each Semester.

All students not receiving scholarship aid will pay \$50 tuition and \$3 Library tax each Semester.

The laboratory fee in the department of Biology is \$3 for each course.

The laboratory fee in the department of Physics is \$3 for each course in Junior year and \$5 for each later course.

The laboratory fee in the department of Chemistry is as follows: Course 2, \$5; Course 5, \$5; Course 7 or 8, \$4.

The laboratory fee in the department of Mineralogy is \$3 for each course.

Room-rent is payable in two instalments, one half at the beginning of the first Semester and one half on March 10 succeeding.

Electric lights, 16 candle-power, including lamps, are furnished at \$7 a year per lamp.

EXPENSES

Expenses may be estimated as follows :

Tuition	\$100.00	\$100.00
Library and Reading-room dues	6.00	6.00
Text-Books	10.00	to 20.00
Laboratory Fees (if courses elected)	6.00	to 14.00
Room-Rent	10.00	to 150.00
Fuel and lights	15.00	to 40.00
Board from \$3.00 to \$5.00 a week	111.00	to 185.00
Washing	15.00	to 30.00
	<u>\$273.00</u>	to <u>\$545.00</u>

Room-rent, fuel, and lights are estimated on the supposition that two students occupy the same room.

Other incidental expenses, such as furniture, expenses in societies, class-taxes, travelling expenses, etc., vary according to circumstances, and with the character and habits of the individual, and are not included in the above estimate.

DORMITORIES

The dormitories of the College accommodate about four hundred and fifty students. There are fifty single rooms, one hundred and seventy suites for two, and twenty suites for three.

The dormitories are of two kinds, — those heated by steam, with janitor service; and those heated by steam, without janitor service.

In the first class are: Reed Hall, with nineteen rooms in suites for two or three, accommodating forty-four students; the Sanborn House, erected in 1894, with single rooms and with suites for two, accommodating fifty students; the Crosby House, erected in 1896, with single rooms and suites for two or three, with separate bedrooms, accommodating forty students; Richardson Hall, erected in 1897, with single rooms, and suites for one or two, accommodating fifty-six students; Hubbard House, first occupied in 1899, and accommodating thirteen students; and Fayerweather Hall, erected in 1900, with single rooms, and suites for one, two, or three, accommodating eighty students.

In the second class is Hallgarten Hall with an annex, arranged in single rooms, and in suites for two, three, or four, accommodating thirty-six students; Thornton Hall, with single and double rooms, accommodating forty-five students; Wentworth Hall, with double rooms accommodating forty-five students; Dartmouth Hall accommodating twenty-five students; and Elm House with accommodations for twenty-two students.

Richardson Hall is provided with fireplaces in most of the suites, and in a few suites with bath-rooms; there are bath-rooms and water-closets on each floor; the Crosby House is provided in nearly all its suites with fireplaces, and is furnished with bath-rooms and water-closets on each floor; the Sanborn House is furnished with bath-rooms and water-closets on each floor; Hallgarten Hall with bath-room and water-closets on the first floor; Reed Hall with bath-rooms and water-closets on the second floor; Thornton and Wentworth Halls with bath-rooms and water-closets on first floor; Dartmouth Hall is also furnished with water-closets in the basement at either end, and Elm House with bath and water-closets in basement.

All rooms in the College buildings are unfurnished.

PRICE OF ROOMS IN THE COLLEGE BUILDINGS,
1900-1901

DARTMOUTH HALL, with steam-heat, without care.

Rooms for one occupant, No. 4, \$50; No. 6, \$56; No. 12, \$60.
Rooms for two occupants, Nos. 2, 6, 8, 10, \$70; Nos. 3, 5, 9, \$74;
No. 12, \$76; Nos. 1, 11, \$80; No. 7, \$84.
Rooms for three occupants, Nos. 2, 10, \$81; Nos. 3, 5, \$84; No. 9,
\$87; No. 1, \$90; No. 11, \$96; No. 7, \$102.

THORNTON HALL, with steam-heat, without care.

Rooms for one occupant, No. 3, \$48; Nos. 4, 7a, 12, 22, \$50; 4,
12, \$50; No. 20, \$54; Nos. 5, 24, \$56; No. 11, \$58; No. 7b,
\$62; No. 18, \$64; Nos. 10, 13, 15, 17, 19, 21, 23, \$66; Nos. 9,
16, \$72.
Rooms for two occupants, Nos. 12, 22, \$70; No. 20, \$72; Nos. 7b,
11, 18, \$80; Nos. 10, 15, 19, 21, 23, \$84; Nos. 8, 13, 17, \$86;
Nos. 2, 16, \$92; No. 1, 9, \$96.
Rooms for three occupants, Nos. 22 and 24, \$126; Nos. 10 and 12,
18 and 20, \$138; Nos. 13 and 15, 17 and 19, 21 and 23, \$154;
Nos. 9 and 11, \$156.

WENTWORTH HALL, with steam-heat, without care.

Rooms for one occupant, No. 14, \$40; Nos. 12, 22, \$50; No. 4,
\$54; No. 20, \$56; No. 24, \$58; No. 8, \$62; Nos. 1, 2, 3, 5, 7,
\$62; Nos. 10, 18, \$66; Nos. 9, 11, 13, 15, 17, 19, 21, 23, \$68;
No. 16, \$72.
Rooms for two occupants, No. 22, \$70; Nos. 4, 12, 20, \$72; No.
24, \$76; No. 2, \$80; Nos. 1, 3, 5, 7, 10, 18, \$82; Nos. 19, 21,
23, \$84; Nos. 9, 11, 13, 15, 17, \$86; No. 16, \$92.
Rooms for three occupants, Nos. 22 and 24, \$126; Nos. 2 and 4,
10 and 12, 18 and 20, \$138; Nos. 1 and 3, 5 and 7, \$144; Nos. 9
and 11, 13 and 15, 17 and 19, 21 and 23, \$156.

HALLGARTEN HALL, with steam-heat, without care.

Rooms for one occupant, No. 16, \$30; No. 26, \$40; No. 6, \$44;
No. 21, \$45; No. 9, \$50; Nos. 15, 17, 18, 20, \$55.
Rooms for two occupants, No. 21, \$70; Nos. 15, 17, 18, 20, \$80;
No. 23, \$90; Nos. 5, 7, 11, 13, \$96; Nos. 8, 10, 12, 14, \$100;
Nos. 2, 24, \$110; Nos. 6 and 8, \$124; Nos. 9 and 12, \$130;
Nos. 24 and 26, \$150.

Rooms for three occupants, No. 2, \$135; Nos. 6 and 8, \$144; Nos. 9 and 12, \$150; Nos. 5 and 7, 11 and 13, 24 and 26, \$180; Nos. 8 and 10, 12 and 14, \$186.

REED HALL, with steam-heat and care.

Rooms for one occupant, No. 12, \$56; No. 18, \$96.

Rooms for two occupants, No. 4, \$100; No. 3, \$102; Nos. 5, 6, \$106; Nos. 1, 2, 7, 8, 9, 10, \$110; No. 16, \$114; No. 11, \$116; No. 14, \$120; Nos. 18, 19, \$122; No. 15, \$124; No. 17, \$130; No. 13, \$132.

Rooms for three occupants, Nos. 1, 2, 7, 8, 9, 10, \$135; No. 15, \$162; No. 17, \$165; No. 13, \$168.

SANBORN HOUSE, with steam-heat and care.

Rooms for one occupant, Nos. 25, 27, \$50; Nos. 10, 18, 26, 28, A, \$60; No. 29, \$70; Nos. 17, 19, 21, 23, \$90; Nos. 2, 9, 20, 22, 24, \$100; Nos. 3, 5, 7, 11, 13, 15, \$110; Nos. 1, 4, 6, 8, 12, 14, 16, \$120.

Rooms for two occupants, Nos. 10, 18, 29, \$90; Nos. 17, 19, 21, 23, \$110; Nos. 9, 20, 22, 24, \$120; Nos. 3, 5, 7, 11, 13, 15, \$130; Nos. 1, 4, 6, 8, 12, 14, 16, \$140.

CROSBY HOUSE, with steam-heat and care.

Rooms for one occupant, No. 23, \$60; No. 17, \$100; Nos. 16, 22, \$120; No. 7, \$130; No. 14, \$140.

Rooms for two occupants, No. 17, \$120; Nos. 16, 22, \$140; No. 7, \$150; Nos. 1, 14, 19, 21, \$160; Nos. 3, 9, \$170; Nos. 2, 11, 13, 15, 18, \$180; No. 4, \$190; Nos. 5, 10, 21, \$200; Nos. 6, 8, 13, 20, \$220; No. 12, \$240.

Rooms for three occupants, No. 20, \$240; No. 12, \$300.

RICHARDSON HALL, with steam-heat and care.

Rooms for one occupant, No. 22, \$50; No. 13, \$60; Nos. 1, 2, 28, \$100; Nos. 10, 27, \$110; No. 18, \$120; Nos. 9, 19, \$130.

Rooms for two occupants, Nos. 1, 2, 23, 24, \$130; Nos. 5, 6, 14, 15, \$150; No. 4, \$190; No. 3, \$210; Nos. 25, 26, \$220; No. 30, \$240; Nos. 7, 8, 16, 17, 29, \$250; No. 12, \$260; Nos. 11, 20, \$280; No. 21, \$300.

Rooms for three occupants, Nos. 18 and 20, \$400; Nos. 19 and 21, \$430.

A diagram giving the location of each room or suite of rooms, with dimensions, number of occupants allowed, and price, will be sent upon application to the Dean.

THE LIBRARY

In its several collections, the College Library represents the accumulations of a century and a quarter. It originated in valuable gifts of books to the first President from English and Scotch societies for promoting religious knowledge; also, from the Rev. John Erskine, Mr. William Dickinson, and others. Similar benefactions have followed, among the more important of which are the Johnson, Phillips, Shattuck, Shurtleff, Parker, Smith, Appleton, Bond, and Grimes donations.

For many years separate libraries were sustained and managed by the public literary societies of the students, known as the Social Friends and the United Fraternity. The Philotechnic Society, organized at a later date among the students of the Chandler School, also made important additions to these collections.

In 1874 the different libraries were consolidated, and put under the control of the College, but the principle of voluntary contribution, by which the collections were so largely gathered, is still maintained, and the annual sum of six dollars is collected from each student, for convenience, with the tuition. According to the agreement through which this annual assessment is made, the selection of books to the value of several hundred dollars yearly is entrusted to a committee of the Seniors.

The main collection, numbering about 85,000 volumes and 20,000 pamphlets, with a large accumulation of newspapers and manuscripts, is in Wilson Hall, a commodious and convenient fire-proof building constructed after the most approved plans of library architecture. The building is heated by steam, elaborately ventilated, and, including the stack-room, lighted by electricity. The books are arranged according to the "expansive system," the classes corresponding as nearly as possible to the departments of instruction in the College. They are catalogued after the method of the "classified-card" catalogue.

Wilson Hall also contains three attractive and well-stocked reading-rooms, for newspapers, magazines, and reference books, and a large art gallery. The latter has just been fitted with shelving of the most recent pattern, supplied with convenient tables, and made available as a departmental reference room. The Library possesses over one hundred portraits in oil, a good collection of photographs for the illustration of art and archæology, coins, curios, etc.

There are department libraries in the Observatory, the Thayer School building, the Y. M. C. A. Rooms, as well as in the Physical, Chemical, Geological, Botanical, and Zoölogical Laboratories, and in the rooms occupied by the departments of Greek, History, Political Science, and Social Science. Provision is to be made for other departments.

The rooms in Wilson Hall formerly used for offices of college administration are now to be used for collections on the subject of education, for the special benefit of the Faculty.

Books may be drawn for two weeks, excepting those volumes added during the college year, which may be retained but one week. Freshmen may retain three books at a time; Sophomores, four; Juniors, five; Seniors, six; Resident Graduate Students, ten; Alumni, four. Persons not connected with the College may use the Library upon the payment of four dollars yearly.

The reading and reference rooms are open on week-days from 8 A.M. to 10 P.M.; on Sunday the reading-rooms are open from 1.30 to 5.30 P.M.

The Library is open for drawing books from 9 A.M. to 12.30 P.M. and from 1.30 to 5 P.M.

Special attention is given to bibliography by courses of instruction, supervision of courses of reading, and personal assistance.

SCIENTIFIC EQUIPMENT

BUTTERFIELD MUSEUM

By the will of the late Ralph Butterfield, M.D., of Kansas City, of the Class of 1839, the College was made the residuary legatee of his estate, in a sum estimated at one hundred and sixty thousand dollars, "for the purpose of founding and forever maintaining a chair and professorship for the purpose of lectures, recitations, and general instruction in paleontology, archæology, ethnology, and other kindred subjects; and for the erection of a building to cost not less than thirty thousand dollars, for the purpose of keeping, preserving, and exhibiting specimens illustrating the aforesaid branches. It is to be optional with the Trustees either to establish a professorship or a series of lectures at stated periods, on the subjects mentioned."

In accordance with the expressed wish of the donor, the Butterfield Museum, a granite and Roman brick structure, one hundred and forty-five by fifty-five feet in dimension, of three stories and a basement, has been erected, and is now occupied by the various departments indicated in the above bequest. Special facilities are offered for instruction in Geology and Mineralogy, in Zoölogy and Botany, and in Archæology and Sociology.

The collections in Geology and Biology are arranged in the Butterfield Museum. They consist of the Frederick Hall collection of minerals and rocks, the Henry Fairbanks collection of birds and insects, restorations of large extinct animals, an extensive herbarium, collections illustrative of archæology, conchology, economic geology, and numerous other specimens, besides topographical models, and a special collection of the rocks of New Hampshire and Vermont, gathered under the auspices of the Geological Survey of New Hampshire. During the year a collection of great value, comprising fifteen hundred specimens of gold, silver, copper, lead, and zinc ores from a section of Montana, forming a complete history of the mineral development of the region, has been presented to the Museum by Clinton H. Moore, Class of 1874, of Butte, Montana.

The main Biological Laboratory is a large room eighty-four by thirty feet, on the north side of the first floor. It is used for the elementary biology courses and for the courses in histology. A similar room in the basement is used for the work in mammalian anatomy and in the comparative anatomy of vertebrates. Adjoining this laboratory is a thoroughly equipped macerating-room. At the west end of the first floor is the laboratory for the embryology course and for the advanced workers. At the east end is a lecture-room, and also a Botanical Laboratory.

In addition to the above named rooms are five private rooms for instructors, a chemical room, two storerooms, and in the basement a room for live animals. All the laboratories are well equipped with the apparatus necessary for practical biological work.

PHYSICAL LABORATORY

The Wilder Laboratory, the gift of the late Charles T. Wilder of Wellesley, Mass., was made ready for the occupancy of the department of Physics at the opening of the present academic year. The

building is one hundred and seven feet long by fifty-two in depth, with a lecture-room projection in the rear.

The laboratories and recitation-rooms occupy three floors and a basement. The basement is to be devoted to workshop, dynamo-room, magnetic and electrical laboratories, storage battery room, and a room for constant temperature experiments. The first floor contains two large recitation-rooms, the private offices of the instructors, a lecture-room in the extension having a seating capacity for two hundred and forty persons, with a room for apparatus adjoining. The main laboratory occupies a section of the second and third floors, and the remainder of these floors is divided into laboratories for advanced work in acoustics, optics, and electricity; photographic and photometric laboratories and a concave-grating room are included. The entire building is heated by steam (direct and indirect radiation), provided with electric lights, wired on the conduit system for power circuits, supplied with gas, and piped for air blasts and water supply. The building is located near the observatory, allowing the departments of Physics and Astronomy to work in conjunction.

OBSERVATORY

The Shattuck Astronomical and Meteorological Observatory is used for the purposes of instruction. It is provided with the instruments necessary to a complete observatory, including a telescope by Clark, having an aperture of 9.4 inches, and a focal length of 12 feet, with a spectroscope of the highest power and best construction, a four-inch meridian circle, etc.

CHEMICAL LABORATORY

The Chemical Laboratories occupy the whole of the first and about half of the second floor of Culver Hall. The large northeast room on the second floor has been equipped with about forty new tables for quantitative work, and the balances and library have been transferred to adjoining rooms. In all courses, except the introductory course, chemistry is taught by laboratory work, enforced by informal lectures, demonstrations, and short recitations.

CHANDLER HALL

Through the bequest of the late Frank Willis Daniels, of the Class of 1868, Chandler Hall, recently known as Moor Hall, has been purchased, reconstructed, and enlarged, and fitted for the special uses of the departments of Mathematics and Graphics. The first floor furnishes a large lecture-room, accommodating over two hundred persons, and rooms for the elementary courses in engineering ; the second floor provides four well-arranged rooms for recitation work in mathematics, with private offices for the instructors; the third floor furnishes two large rooms for free-hand and mechanical drawing, with lighting from above.

The basement is devoted to testing and experimental work in the department of Engineering.

RELIGIOUS SERVICES

Prayers are conducted by the President each week-day morning in Rollins Chapel, and a vesper service is held on Sunday. All undergraduate students are required to be present.

The services of public worship, conducted by some member of the Board of Preachers, are held on Sunday mornings in the College Church. The preacher of the day is also at Bartlett Hall at four o'clock on Sunday afternoons to meet personally any students who may desire a conference with him.

Any student desiring to attend some other church in place of the College Church may indicate his choice at the time of registration. If a change is desired, after the choice has been made, permission must be gained from the Dean.

The Trustees have erected, for the use of the College Young Men's Christian Association, a large and carefully planned building, known as Bartlett Hall, providing a large audience hall and a reading-room, with rooms and ample facilities for Bible-classes, prayer-meetings, receptions, and social intercourse.

PHYSICAL CULTURE

The Instructor in Physical Culture will study the physical needs of each student, and recommend the special form of exercise most desirable for a symmetrical bodily development. Among the agencies contributing to this result are the regular training in the Gymnasium and the organized athletics of the College.

Lectures on Physiology and Hygiene are given to the Freshman class in the First Semester, and during the winter months a gymnastic exercise is held on four days of the week.

GYMNASIUM. This building, erected by the munificence of the late GEORGE H. BISSELL, of New York, is supplied with necessary apparatus. It has been refitted on the first floor with the latest improvements in shower and tub baths, closets, and lockers. It is open daily for the use of the students, and during the winter season a regular exercise is required of all members of the Freshman class, and voluntary divisions are formed among members of the other classes. The aim is to reach the large body of students who do not enter into athletic contests, rather than to train athletes.

ALUMNI ATHLETIC FIELD. Through the generous contributions of many of the Alumni, an admirable athletic field, with all the modern improvements, has recently been laid out near the College buildings. It is provided with all the necessary facilities for baseball, foot-ball, track athletics, and tennis; including a grand-stand seating six hundred spectators and containing dressing-rooms and shower-baths for the use of the students.

The general supervision of athletics in the College is committed to an advisory board, consisting of three non-resident Alumni, three members of the Faculty, and three undergraduates.

SANITARY CONDITIONS

The precinct of Hanover is healthfully situated upon a plain two hundred feet above the valley of the Connecticut. A system of waterworks, recently established at an expense of \$65,000, furnishes, in connection with the aqueduct before in use, an ample supply of water for all purposes. The precinct is also supplied with a thorough system of sewers.

In 1898 the College adopted the method of heating its buildings from a central station, and constructed a plant on the most approved plan at a cost of \$50,000; sixteen of its buildings, dormitories, and recitation halls are heated in this way, ensuring a nearly equable temperature.

In case of illness, the Mary Hitchcock Memorial Hospital, constructed upon the most approved plans, and widely known, since its opening in 1893, as one of the best cottage hospitals in the country, furnishes the students such care and comfort as is seldom found outside of the larger cities.

RAILROAD CONNECTIONS

The railroad station is known as Norwich and Hanover, on the Passumpsic Division of the Boston and Maine Railroad. White River Junction, four miles south of Hanover, is the centre of four lines of railroads: the Concord Division (Boston and Maine system), making connection with Concord, Manchester, Nashua, Lowell, and Boston (four hours and forty minutes to Boston); the Central Vermont Railroad and the Connecticut River Division (B. and M. R. R.), making connection with Springfield, Hartford, New Haven, and New York (eight hours to New York); and also connecting at Greenfield (Fitchburg R. R.) and Springfield (Boston and Albany R. R.) for the West; the Central Vermont Railroad, making connection with Montpelier, Burlington, and the West (thirty hours to Chicago); the Passumpsic Division (B. and M. R. R.), making connection with Wells River, St. Johnsbury, Montreal, and Quebec (eight hours to Montreal).



**THAYER SCHOOL OF CIVIL
ENGINEERING**



THAYER SCHOOL OF CIVIL ENGINEERING

FACULTY

WILLIAM JEWETT TUCKER, D.D., LL.D., *President.*

ROBERT FLETCHER, Ph.D., *Director and Professor of Civil Engineering.*

JOHN V. HAZEN, C.E., *Associate Professor of Civil Engineering.*

JOHN L. MANN, C.E., *Assistant Professor of Civil Engineering and Surveying.*

The THAYER SCHOOL OF CIVIL ENGINEERING was established more than a quarter of a century ago, to provide a distinctively post-graduate or professional course of study in Civil Engineering. In pursuance of this aim the founder, the late GENERAL SYLVANUS THAYER, Corps of Engineers, U. S. Army, a graduate of Dartmouth College in 1807, and distinguished as the organizer and "father" of the U. S. Military Academy, caused to be prepared a detailed "Programme" of the requisites for admission, covering the entire range of mathematics, chemistry, physics, and other studies, which were regarded as preparatory. No specific requirements in language, literature, history, and other subjects which give a broader mental training, were made, because at that time few could get the preparation demanded without attending College at least three years, and often during the usual period of four years. Hence, during the first twenty years of the Thayer School, 72 per cent of all who were admitted had already received the degree of B.S. or A.B., and of the remainder, 7 per cent had attended College three years, either as "classical" or "scientific" students.

It has been the consistent policy of the administration from the first to offer a general course of study in civil engineering, so developed as to include the essential principles and operations of all the important branches or divisions. There are no laboratories or

special machinery for instruction in "mechanical engineering"; but the facilities to be perfected during the present year in the new Wilder laboratories of Dartmouth College, make it possible for the Thayer School to offer a short course on the fundamentals of applied electricity, which may be developed, ultimately, into an elective.

REQUIREMENTS FOR ADMISSION

1. English Grammar; 2. Geography; 3. History of the United States; 4. Arithmetic; 5. Book-keeping: only the simpler principles and methods of single and double entry; 6. Algebra, *Taylor* or *Bourdon*; 7. Geometry, *Legendre*; 8. Trigonometry and Mensuration; 9. Compass Surveying, *Murray*; 10. Descriptive Geometry, including Shades, Shadows, Perspective, *Church*; and Isometrical Drawing, *Warren*; 11. Analytic Geometry, *Bowser* or *Hardy*; 12. Calculus, *Hardy*; 13. Analytic Mechanics, *Wood's* Elementary; 14. Chemistry: as nearly as possible a course equivalent to Chemistry 1, 2, or 4 of Dartmouth College courses; 15. Physics: as nearly as possible the equivalent of Physics 1, 2, 3, and 5, of the College courses (3 is laboratory practice); 16. Astronomy, *Young's* Elements; 17. Physical Geography and Meteorology.

The text-books indicated above are recommended, but others fully equivalent may be used.

Candidates for admission should be present for examination two days, at least, before August 1, or, by appointment, in May or June. Notice of intention to apply should be given by May 1, or earlier if possible. None will be received for advanced standing. Certificates from preparatory institutions, as to scholarship and character, will have due weight, but in all cases the candidate is orally examined, more especially with reference to the essential principles of the branches numbered 6, 7, 8, 10, 11, 12, 13, 14, and 15. Prompt and accurate statement of principles and definitions is insisted upon, and a limited amount of blackboard work required. A neat set of mechanical drawings — constructions of important geometrical problems and a few leading problems of Descriptive Geometry — must be presented. Hence a fair degree of skill in mechanical drawing is one of the essential conditions.

Students of approved ability and proficiency in the Chandler Scientific Course of the College may elect the first year courses in the Thayer School for their work of Senior year. At the close of the year, they may formally graduate from the College with the degree of B.S. They may then become eligible for the degree of Civil Engineer, after pursuing the regular engineering courses of the second year group. For such students, the engineering course is technically "post-graduate" only for the second or last year.

The conditions for such election are: a "standing" of at least 75 per cent, in the aggregate, in the subjects above specified, and not less than 75 per cent in four or more, nor less than 60 per cent in any one; a special examination, as stated above; an intention to pursue, eventually, the entire engineering course, either in the next consecutive year, or as soon thereafter as the circumstances may permit.

COURSE OF STUDY AND PRACTICE

FIRST YEAR

Thirty-seven weeks, excluding all intermissions, each week comprising eleven half-days, of four and a half hours, devoted to study, field-work, or office-work. In emergencies the half-day is extended to five or five and a half hours.

A.—THEORY AND PRACTICE OF SURVEYING. [This is preceded by a preliminary course of 104 hours during Junior year in College.]

I. Theory, complete adjustments, and testing of the essential instruments. Principles and preliminary practice of levelling, and location and measurement of lines and angles.

II. Principles and sufficient practice of all usual surveys and locations of lines and areas, topography, and the routine of an ordinary railroad survey. The necessary calculations and other office-work of plotting, tracing, and blue-printing. Computation of earth-work by two or more methods, and use of the planimeter. A completed railroad map and profiles, in detail, and finished plots of other principal surveys.

III. Special methods and practice ; plane table work ; use of photography in surveying ; laying out transition curves ; location of the meridian and the finding of the latitude, azimuth, and time (by sextant and engineer's transit) ; city-surveying ; theory of geodesy and underground surveying. Adjustment and comparison of observations.

August 1 to December 1, 186 half-days.

B. — ANALYTIC MECHANICS AND GENERAL APPLICATIONS. Kinematics. Dynamics ; statics and kinetics. Principles and working conditions, including latest experimental results on friction, etc. Elements of mechanism. Practical applications. 60 half-days.

C. — MATERIALS OF ENGINEERING. 1. Physical and chemical properties and production of limes, cements, mortars, natural and artificial stone, timber, iron, steel, zinc, copper, aluminum, etc. ; durability, preservative materials ; a brief course in Mineralogy. 2. Mechanical properties, analytically and experimentally treated. 3. Laboratory tests of cements, iron, steel, wood, and other materials. 72 half-days.

A testing machine of 27,000 pounds capacity for tension, compression, and bending stress, affords sufficient practical illustration of the mechanics of materials. Each student uses the machine in making prescribed series of tests.

Several series of cement tests are carried out each year by groups of two or three, and written reports of these are made to the Director in proper form.

D. — ORDINARY AND SPECIAL STRUCTURAL WORK AND OPERATIVE DETAILS. Course begun : — Elementary courses on stone-cutting, masonry and foundations, arches, and other masonry structures. 33 half-days.

E. — FRAMED STRUCTURES : — TRUSSES FOR ROOFS AND BRIDGES, BUILDING SKELETONS, ETC. Course begun : — Graphical statics and other analysis applied to girders and simple trusses. Ordinary and essential details. One or two simple designs. 42 half-days.

G. — ROADS, RAILROADS, AND TRANSPORTATION IN GENERAL. Course begun : — Roads, streets, and pavements, — construction and maintenance. 16 to 18 half-days, beside the preparation of an essay.

SECOND YEAR

Thirty-three weeks, of eleven half-days each, from about Sept. 1 to May 1.

D. — (*concluded*). Carpentry and framing; metal work; advanced reading on masonry and foundations; theory of retaining walls; dams; chimneys; high-framed buildings; fire-proof and slow-burning construction; renewals and enlargements. Engineering contracts and specifications. Auxiliary work and machinery. Inspection. 55 half-days.

E. — (*concluded*). Analysis of stresses in trusses, framed arches, stone arches, and suspension bridges; details and maintenance. Frames of tall buildings. Tours for inspection. One design worked out. 66 half-days.

F. — ROCKWORK, TUNNELLING AND MINING. Outlines of geology, —vacation reading. Explosives and blasting; special appliances and methods in subterraneous works. Reading and lectures. 16 half-days.

Copper mines and furnaces in neighboring towns in Vermont, formerly very extensively worked, and now being actively exploited, afford the best of object lessons in mining and metallurgy.

G. — (*concluded*). Economics of location, construction, and maintenance of railways. A brief study of street railways (electric and cable-traction, etc.), mountain railways, telpherage, and marine transportation. 44 half-days.

H. — HYDRAULIC ENGINEERING. Statics and dynamics of fluids; principles and data of hydraulics; collection, storage, purification, and distribution of water for town supply, power, and irrigation. Hydraulic motors: theory, construction, and operation; development of water-power. Gauging of Connecticut River. Measurements of flow by weirs and nozzles, of efficiency of motors, friction in pipes, etc. 66 half-days.

The Hanover Waterworks, constructed at a cost of \$65,000, affords all needed conditions for hydraulic experiments under a head of 190 feet, in a laboratory equipped for all such operations of recognized importance. It is also an example of successful construction and

operation, including a reservoir of 130,000,000 gallons capacity, a dam 700 feet long, gate-house, and main and distribution system of about 8 miles of pipe, all of which is available for inspection and for study of rainfall and its actual collection, water-ram in pipes, efficiency of fire-streams, etc.

I.—HEAT, HEAT ENGINES, AND POWER. Principles of Thermodynamics; fuels, and their combustion; steam. Heat engines: construction and operation of typical forms; application of laws. Development and transmission of power. 44 half-days.

The establishment by the College of one of the most efficient central steam-heating systems in the United States affords now the best of opportunities for studying efficiency of boilers and furnaces, at times when regular tests are made. The mills of the Wilder Company near by, on the Connecticut River, as well as several smaller mills at Lebanon, on the Mascoma River, give abundant facilities for studying the construction and operation of water-power plants on a large scale.

J.—SANITARY ENGINEERING. Drainage and sewerage; systems and appliances; governing principles. Heating and ventilation. Special study of "Separate Systems" and methods of sewage disposal, including bacterial methods. Sand filtration of water and sewage. 30 half-days.

K.—CANALS, IMPROVEMENT OF RIVERS AND HARBORS. Principles; surveys and observations; construction in different cases,—means and methods of procedure. (Briefly by reading and lectures.) 8 half-days.

L.—PRINCIPLES OF APPLIED ELECTRICITY. An elementary study of the problems of Electric traction, lighting, transmission of power, etc. A brief course during the second Semester, the scope of which will depend upon the completion of facilities in the Wilder laboratories.

METHODS OF INSTRUCTION. PRACTICE. During the first year, instruction is given chiefly by daily recitations from text-books and ample practice in field and laboratory. During the second year the character and range of subjects call for wider reading of treatises and current technical literature, which is promoted by full programmes of

the courses, giving all of the important references up to date. This is supplemented by recitations, lectures, and examinations.

The amount of field-work and other practice is made sufficient only to elucidate and emphasize the more important principles. In this connection carefully planned tours, for the study and inspection of works in progress or completed, are made when advantageous for purposes of instruction.¹ Suitable professional employment during the summer vacation has heretofore been usually secured for Thayer students. Either a written or verbal report in relation to his summer work, or to some engineering structure or operation which he has specially examined, is expected from each student at the close of vacation.²

TERMS, EXAMINATIONS, AND EXPENSES

The course of study and practice continues through two years, commencing, for the entering class, August 1, and continuing until near the first of May. This allows seventeen weeks of vacation for summer employment, when procurable. There may be a short recess at the Christmas holidays. Examinations are held from time to time, as the work progresses. The annual examination is held during the latter part of April, before the Board of Overseers.

Tuition is one hundred dollars per annum, one-half to be paid each term in advance. There is no provision for pecuniary aid.

The annual expenses of an economical student will vary between \$350 and \$400, including tuition, books and stationery, board, fuel, light, and drawing instruments.

¹ Heretofore tours have been made to Boston, Lowell, and Lawrence, Mass.; to New York and vicinity; to St. Albans, Vt., and region *en route*; to Portland, Me., and vicinity; and for inspection of bridges, water-power plants, mines, etc., in the region nearer at hand.

² No definite assurance of summer employment can be given. In former years engagements for the summer season have been made as follows: Under the United States Coast and Geodetic Survey; in city engineers' offices; as draughtsmen for bridge works; surveys and superintendence of construction of sewerage works, water-works, mill buildings, etc.; on works for harbor improvements under the United States Government; on works under the Department of Docks, New York City; on main drainage works for Boston, Mass.; inspection of iron, Brooklyn Elevated Railway; survey for irrigation works in New Mexico.

After a satisfactory final examination before the Board of Overseers, including an acceptable thesis,¹ the degree of Civil Engineer will be conferred.

The THAYER SCHOOL ANNUAL, published in July, 1899, contains further information relating to the work of the institution, its graduates, etc. This will be sent, and inquiries answered, on application to the President or

Professor ROBERT FLETCHER, *Director*.

¹ A thesis by two members of the class of 1893, on "Testing Cement by Transverse Breaking," took the first prize of \$75 in a competition instituted by the editors of *Engineering News*, and open to all the Engineering Schools in the United States and Canada. A thesis on "Effect of Freezing on Cement Mortars" divided the second prize in 1894. Another thesis received Honorable Mention in 1895.

THE AMOS TUCK SCHOOL OF ADMIN-
ISTRATION AND FINANCE



THE AMOS TUCK SCHOOL OF ADMINIS-
TRATION AND FINANCE

FACULTY

WILLIAM JEWETT TUCKER, D.D., LL.D., *President.*

JAMES FAIRBANKS COLBY, A.M., LL.B., *Parker Professor
of Law and Political Science.*
(Constitutional and International Law.)

JUSTIN HARVEY SMITH, A.M., *Professor of Modern History.*
(Colonial History and Diplomacy.)

DAVID COLLIN WELLS, A.B., *Professor of Sociology.*
(Demography and Social Institutions.)

_____, *Professor of Commercial and Corporation
Law.*

FRED PARKER EMERY, A.M., *Willard Professor of Rhetoric
and Oratory.*
(English Composition and Argumentation.)

LOUIS HENRY DOW, A.M., *Assistant Professor of French.*
(French Composition and Conversation.)

FRANK HAIGH DIXON, Ph.D., *Secretary and Assistant
Professor of Economics.*
(Finance and Transportation.)

ASHLEY KINGSLEY HARDY, Ph.D., *Instructor in German.*
(German Composition and Conversation.)

MURRAY ANTHONY POTTER, Ph.D., *Assistant Professor of French.*

(Spanish.)

CRAVEN LAYCOCK, A.B., *Instructor in the Art of Public Speaking.*

(Public Speaking and Debate.)

(Lecturers on Municipal Administration, Insurance, Investments, and International Trade Relations to be announced later.)

Under the terms of the Amos Tuck Endowment Fund, the gift by Mr. Edward Tuck of the Class of 1862, of the sum of three hundred thousand dollars as a memorial to his father, the Honorable Amos Tuck of the Class of 1835, and a Trustee of the College from 1857 to 1866, especial provision was made for the "establishment of additional professorships within the College proper or in graduate departments." In accordance with this provision of the endowment fund for additional instruction in undergraduate and graduate courses, and with the direct approval of the donor, the Trustees of Dartmouth College have created the Amos Tuck School of Administration and Finance.

This School is established in the interest of college graduates who desire to engage in affairs rather than enter the professions. It is the aim of the School to prepare men in those fundamental principles which determine the conduct of affairs, and to give specific instruction in the common law, and the laws pertaining to property, in the management of trusts and investments, in the problems of taxation and currency, practical banking and transportation, in the methods of corporate and municipal administration, in the growth and present status of the foreign commerce of the United States, and in the rules governing the civil and consular service. The attempt will be made to insure to college graduates who have in view administrative or financial careers, a preparation equivalent in its purpose to that obtained in the professional or technical schools. The training of the School is not designed to take the place of an apprenticeship in any given business, but it is believed that the same amount of academic training is called for under the enlarging demands of business as for the professions or for the productive industries.

CONDITIONS OF ADMISSION

All candidates will be required to present a bachelor's degree, except those who enter under the following conditions :

Students who are able to present courses taken as advanced electives in an undergraduate curriculum, which are substantially the same as those offered in the first year, will be given standing in the second year.

Students of approved ability, of three years' undergraduate standing, who have taken the prescribed work in History, Economics, and Political Science, and one elective in the departments of History, of Economics, and of Sociology, in Dartmouth College, together with two years of prescribed and elective work in English Composition and Argumentation, and the elementary courses in two of the three languages, German, French, and Spanish, may elect the first year courses of the Tuck School for their work of Senior year. At the close of the year, they may formally graduate from the College with the bachelor's degree for which they entered. After a year of graduate work in the Tuck School, they become eligible for certification in that School.

Students from other colleges entering the Senior year of Dartmouth College, to avail themselves of this privilege, must present with their certificate of transfer a record of their standing.

SPECIAL STUDENTS

Applicants who may show fitness to pursue particular courses may be received as special students and will be given certification for work actually accomplished, but will not be given the full certification of the School.

COURSES OF INSTRUCTION

(Students are required to elect eighteen hours each Semester.)

FIRST YEAR

MODERN HISTORY

This work must be preceded by Courses 1a and 1b (Mediaeval and Modern History, 378-1763), and one elective course, either Course 3 (English History to the 16th Century) or Course 5 (Colonial History to 1783) in Dartmouth College, or their equivalents.

1. European Political History, 1789-1878. This course will open with a review of the geography of Europe and lectures on the various nationalities; the state of the leading countries on the eve of the French Revolution and the early stages of that movement. It will continue with text-book work, supplemented with lectures on the part of the instructor and varied exercises on the part of the students. First Semester, fifty-four exercises,† [3].

2. United States Political History, 1783-1877. This course will be conducted in essentially the same way as the work of the first Semester. Second Semester, fifty-four exercises, [3].

ECONOMICS

This work must be preceded by Course 1 (Elementary Economics) and Course 2 (English Economic History) in Dartmouth College, or their equivalents.

3. American Industrial Development. Especial attention will be given to the period since the Civil War, and a careful study will be made of modern industrial organization, including the development of the great manufacturing industries, the growth of corporations, trusts, and monopolies; the history and problem of transportation; stock and produce exchanges; relations of capital and labor; and the effect

† Numerals in brackets indicate hours per week.

of modern methods of business on producer and consumer. Lectures and recitations. (Stickney's Railway Problem and Ely's Monopolies and Trusts.) First Semester, fifty-four exercises, [3].

4. History and Theory of Money. Especial attention will be devoted to the financial legislation of the United States. The practical problems before the country will be briefly considered. Modern currency standards in operation in foreign countries. Recitations with occasional lectures. (Report Indianapolis Monetary Commission.) Second Semester, fifty-four exercises, [3].

6. Advanced Theory. A study of the development of economic theory. Assigned readings in the works of the Classical School, especially Smith, Ricardo, and Mill, and in the writings of the representatives of modern development, Marshall, Boehm-Bawerk, Patten, Clark, and others. (Ingram's History of Political Economy and Cannan's Production and Distribution.) Second Semester, thirty-six exercises, [2].

POLITICAL SCIENCE

This work must be preceded by Course 2 (The State, Elements of Politics) in Dartmouth College, or its equivalent.

3. American Constitutional Law. This course is designed to give students a knowledge of the general principles of the constitutional law of the United States, both federal and state. Particular attention is given to the origin and development of American political institutions, to the formation of state governments, and to the immediate causes of the adoption of the Federal Constitution and to its text. Recitations and lectures. (Cooley's Principles of Constitutional Law.) First Semester, fifty-four exercises, [3].

5. Elementary Law (Outlines of Jurisprudence). This course is planned to give a general view of the whole field of the law and an introduction to its terminology and its fundamental ideas. It consists of (a) an historical survey of the Roman Law and of the English Common Law, and (b) a critical examination of the fundamental ideas in both these systems of law. Recitations and lectures. First Semester, fifty-four exercises, [3].

6. History of Political Theories. This course is made an alternative with Course 6, Economics, Advanced Theory. Second Semester, thirty-six exercises, [2].

SOCIOLOGY

This work must be preceded by Course 2 (Anthropology and Ethnology) in Dartmouth College, or its equivalent.

3. Anthropological Geography. This considers man in relation to his physical environment, as determining his dispersal over the face of the earth, his mode of life, and the density of population. It traces the bearings of the natural surroundings upon man's physical and mental characteristics, and follows this fundamental and necessary adjustment through the history of the family and the state and in the evolution of the forms of economic life. First Semester, fifty-four exercises, [3].

4. Social Statistics and Applied Sociology. This course has for its foundation an inquiry into the chief results of Vital Statistics, such as birth and death rates, the mortality from different diseases, and under varying social and climatic conditions. These data are then brought into connection with Crime, Pauperism, and Social Reform. It is the biological side of social life. Second Semester, fifty-four exercises, [3].

LANGUAGE

Students will be expected to pursue throughout the year advanced study in two of the three modern languages, German, French, and Spanish, and will enter upon the grade of work which their previous preparation permits. These courses are designed to give training in composition and conversation. Each course will consist of thirty-six exercises per Semester, [2].

Students whose equipment in one or more of these languages is considered adequate may substitute electives chosen from the senior courses in Dartmouth College.

ENGLISH COMPOSITION AND SPEAKING

This course will consume one hour per week throughout the year. It will consist in part of training in business forms and commercial correspondence, in part in the discussion of current questions with a view to the acquisition of facility and skill in argument and public speaking.

SECOND YEAR

MODERN HISTORY AND DIPLOMACY

3. Modern History. This course will consist of lectures on the political history of the South and Central American States, Mexico and the English Colonies. Under the direction of the instructor the students will construct the political history of Europe since 1878 and of the United States since 1877, each student covering a given period and profiting from the results of the work of other students. First Semester, fifty-four exercises, [3].

4. Diplomacy. The subject of this course will be the business of international negotiation, and while necessarily parallel to international law, it will deal with that subject only as it must, and in an incidental way. Lectures will be given on the origin and evolution of modern diplomacy; the qualifications and methods of typical modern diplomats; the course of certain specially noteworthy negotiations from the Congress of Vienna to the Venezuela Case, including the evolution and history of the Monroe Doctrine; the organization of American and foreign diplomatic and consular services; and the duties laid down by the United States Government for its agents in foreign countries. Second Semester, fifty-four exercises, [3].

FINANCE

5. Banking and Investments. The present banking and currency problem in the United States. Organization of banks for business, banking methods, clearing houses, various forms of credit transactions, theory of domestic exchange; relations of banks to the public, their management in times of crises. National, state, private and savings banks, loan and trust companies, money and foreign exchange brokers. Forms of securities, stock and produce exchanges and their practical working, organization and accounts of corporations and trusts, investment and management of estates. (Dunbar's History and Theory of Banking, Bagehot's Lombard Street, Bolles's Practical Banking, Sumner's Investment Securities, Emery's Speculation on the Stock and Produce Exchanges of the United States.) First Semester, fifty-four exercises, [3].

Investments. In connection with Course 5 in Finance, a series of lectures will be given by a banker on the handling of investments. The aim of this course will be to supplement the theoretical knowledge of the student by a study of practical methods.

8. Public Finance. Public expenditure and revenue, taxation, national, state and municipal, debt and financial administration. Especial attention will be given to the problems of state taxation which are the subject of present discussion and the needs of the individual students will be held in mind. (Adams's *Science of Finance* and Seligman's *Essays in Taxation*.) Second Semester, fifty-four exercises, [3].

TRANSPORTATION

7. Transportation. Theory of transportation in relation to the social and industrial organization. Theories of rates. Combination, investment, speculative management, discrimination, state ownership or control. Railroad accounts and financial methods. Forms of organization, bankruptcies, receiverships, reorganizations. Practical methods of operation. Influence of cheapened methods of transportation upon agriculture. American system of grain handling. Lake and river transportation and ocean shipping with reference to their bearing upon railroads. Telegraph and telephone service and its organization. (Sumner's *Investment Securities*, Greene's *Corporation Finance*, works on railroad accounting, and Government documents.) First Semester, fifty-four exercises, [3].

10. Foreign Commerce of the United States. Economic and commercial geography. A survey of the present economic condition of the different parts of the world, their products, resources, and routes of trade, and the influence of physical and social causes in determining that condition. Economic phases of colonial development. Theory of foreign exchange and international trade. Development of ocean shipping. Export and import trade of the United States and its competitive relation to other countries. Examination of present trade conditions in competing countries with a view to the determination of the lines along which America's best interests are to be sought. (Chisholm's *Commercial Geography*, Goschen's *Foreign Exchange*, Clare's *A B C of Foreign Exchange*, Chapman's *History of Trade between the United Kingdom and the United*

States, Government documents.) Second Semester, Fifty-four exercises, [3].

International Trade Relations. In connection with Course 10 on Foreign Commerce will be given a series of lectures on international trade relations. It will be the object of this course to set forth the current conditions of some of the leading markets as illustrating the present openings for trade.

INSURANCE

A course of lectures on the theory and practice of insurance will be given by an actuary of experience.

LAW

7. Commercial Law. The leading principles of the law of real and personal property; an outline of the law of contracts showing the nature of contracts, formalities required, capacity to contract, effect of mistake, misrepresentation, and fraud; assignment of contract with illustrations of special contracts; bills of sale and bankruptcy; bills of exchange, cheques, and bankers' liability, with discussion of negotiability; agency, bailments and carriers, insurance and arbitration. Fifty-four exercises, [3].

8. Industrial and Commercial Corporations. In connection with courses 5 and 7 in Economics a course of lectures will be given treating of legal persons, natural and artificial; causes of the increase of artificial persons; causes of the rapid increase of corporations since 1763, and the consequent development of corporation law; distinction between partnerships and corporations; modes of forming corporations; inviolability of charters; powers of corporations, and their officers and agents; fiduciary relations of their officers and agents; rights of stockholders; relation of stockholders to each other; issue of stock and rights of creditors. Fifty-four exercises, [3].

9. International Law. This course is historical and explanatory of present international relations. It treats of the origin and development of the rules that generally govern the intercourse of modern civilized states, and discusses the legal bearing of specific cases in

Modern Diplomacy. Lectures and readings. (Snow's Cases on International Law.) Twenty-seven exercises for nine weeks, [1½].

10. Administrative Law. This course embraces a study of the executive function of government, administrative boards, selection of governmental agents, their tenure of office, duties, and legal liabilities, and other subjects discussed in Goodnow's Comparative Administrative Law.

MUNICIPAL ADMINISTRATION

In connection with the course in Administrative Law, a series of lectures will be given in which the development of municipal policy will be traced with regard both to the forms and the aims of municipal government. The town meeting, the town council, the city system, and metropolitan administration will be considered in their constitutional bearings and in their practical operation. A comparison of typical city charters, American and foreign, will be made. The proper sphere of the municipality will be considered, first, in its traditional function as protector of person and property, secondly, in the extension of its functions to include the control of public utilities, the education of the electorate, and the care of the dependent classes. The lecturer will discuss the causes of municipal corruption, especially as found in economic conditions, and will trace the relation between municipal reform and social reform in general. Twenty-seven exercises, for nine weeks, [1½].

DEMOGRAPHY AND SOCIAL INSTITUTIONS

5. Demography. This is a study of Population or the units of all forms of social life. It involves a consideration of the economic value of various nations and peoples as producers and consumers of commodities. This is followed by an investigation of the social groups or classes into which population tends to fall, both those involved in the social division of labor and those which have a more natural basis. First Semester, fifty-four exercises, [3].

6. The Psychology of the Forms of Associated Life. The above data are here viewed from the subjective side and interpreted as phenomena of the personal life. Human institutions are treated as

an expression of the spiritual life of a people, with a view to a better understanding of them under the dynamic aspect. An attempt is made to interpret sympathetically trade unionism, mass and class feeling, and all important group aspirations and rivalries. Social problems raised by racial contact are taken up, and the adaptation of political and social life to the peculiar psychic conditions of each people. This is the study of the social environment, both as cause and effect of the personal life. Second Semester, fifty-four exercises, [3].

LANGUAGE

The work in language will be a continuation of that of the first year. Students will be expected to pursue throughout the year the study of one of the three modern languages, German, French, and Spanish.

Language clubs will be formed under the direction of the instructors for practice in conversation. As in the work of the first year, an elective may be substituted when a student's language training is deemed adequate.

PRACTICE ORGANIZATIONS

For one exercise per week during the second Semester, the students of the School will organize themselves into corporations, boards of trade, chambers of commerce, and the like, under the direction of the faculty, and so far as practicable the actual procedure of these bodies will be followed. By this means it is hoped to give the men practical experience that may prove helpful to them in their business careers.

THESIS

A thesis may be required embodying original research and representing work in the field of study which the student has been especially pursuing. The thesis is to be prepared during the last Semester, and will be considered equivalent to a course of fifty-four exercises.

EXPENSES

The tuition is the same as in the College, one hundred dollars per year, payable one half at the beginning of the first Semester, the other half on March 10 succeeding. The scholarships provided for undergraduates are not available for students of the Tuck School except in so far as such students may be pursuing the work of the first year of the School as Seniors in Dartmouth College:

The expenses of a student will vary from \$300 to \$550 per year, the most important variable elements being room-rent and board. The College dormitories are open to students of the School.

FACILITIES

The headquarters of the School will be the Hubbard House, which will contain reading-rooms provided with all periodical literature pertinent to the work, and with seminary rooms containing the necessary books, documents, and reports for the furtherance of investigation. The general library in Wilson Hall will be available, and its equipment along the lines of work in the School will be made more complete and exhaustive as the demand for these facilities increases.

CERTIFICATION

Examinations will be held regularly at the close of each Semester, and additional examinations will be given from time to time at the pleasure of the department concerned. The certification of the School will be given only to those students who have satisfied the faculty as to their fitness, either by a final examination or by the defence of a thesis.

A supplement to this Announcement containing later appointments and courses will be issued during the summer. For further information address the President, or

FRANK H. DIXON, *Secretary*,
HANOVER, N. H.

MEDICAL SCHOOL



MEDICAL SCHOOL

FACULTY

- WILLIAM JEWETT TUCKER, D.D., LL.D., PRESIDENT.
WILLIAM T. SMITH, M.D., LL.D., DEAN and Professor of
Physiology. Hanover.
*OLIVER P. HUBBARD, M.D., LL.D., Professor Emeritus of
Chemistry and Pharmacy.
HENRY M. FIELD, M.D., Professor Emeritus of *Therapeutics.*
Pasadena, Cal.
PHINEAS S. CONNER, M.D., LL.D., Professor of *Surgery.*
215 W. 9th Street, Cincinnati.
PAUL F. MUNDÉ, M.D., LL.D., Professor of *Gynecology.*
20 W. 45th Street, New York City.
WILLIAM H. PARISH, M.D., Professor of *Obstetrics.*
1435 Spruce Street, Philadelphia.
EDWIN J. BARTLETT, M.D., Professor of *Chemistry.* Hanover.
TILGHMAN M. BALLIET, M.D., Professor of *Therapeutics.*
3709 Powelton Ave., Philadelphia.
GILMAN D. FROST, M.D., SECRETARY and Professor of
Anatomy. Hanover.
JOHN M. GILE, M.D., Professor of the Science and Practice of
Medicine. Hanover.
-

- JOHN ORDRONAU, M.D., LL.D., Professor of *Medical*
Jurisprudence. Roslyn, N. Y.
GRANVILLE P. CONN, M.D., Professor of *Hygiene.*
Concord, N. H.
EDWARD COWLES, M.D., LL.D., Professor of *Mental Diseases.*
Waverly, Mass.

*Deceased March 9, 1900.

DAVID WEBSTER, M.D., *Professor of Ophthalmology.*
327 Madison Ave., New York City.

GEORGE A. LELAND, M.D., *Professor of Laryngology.*
669 Boylston Street, Boston.

HOWARD N. KINGSFORD, M.D., *Instructor in Histology,*
Bacteriology, and Pathology. Hanover.

PERCY BARTLETT, A.B., }
KENNEDY F. RUBERT, A.B., } *Demonstrators of Anatomy.*

DELEGATES FROM THE NEW HAMPSHIRE MEDICAL SOCIETY

ABRAM W. MITCHELL, M.D. Epping, N. H.

FRANK BLAISDELL, M.D. Goffstown, N. H.

DELEGATES FROM THE VERMONT MEDICAL SOCIETY

WILLIAM N. BRYANT, M.D. Ludlow, Vt.

FREDERICK R. STODDARD, M.D. Shelburne, Vt.

CALENDAR

The term begins July 17, 1900, and ends the last Tuesday in February, 1901, except that the course of the first or entering class will be identical in time with the course in the Academic Department of the College. This course will begin September 13, 1900, and will end June 26, 1901.

The laboratories of the Academic Department afford unusual opportunities for the work in Physics, Biology, and Chemistry pursued during the first year. Hence the coincidence in time of the first year with the Academic year.

There will be a vacation of two weeks, beginning December 19, 1900, for all students in the Medical School.

COURSE OF STUDY

Professor Charles B. Nancread, M.D., of Ann Arbor, Mich., will give the opening lecture of the One Hundred and Fourth Annual Course on Tuesday, the 17th day of July, 1900, at 4 P.M.

Full courses of didactic lectures in all departments of Medical Science will be given during the session of seven months' duration. For the convenience of non-resident professors, eight or nine lectures are given in each branch weekly until their part of the work in their several branches is finished. The work in each branch is then continued by the resident professors, by lectures, by recitations, by work in the laboratories, and by clinics and ward classes at the Hospital, until the end of the session, when a written examination in each branch is given.

The course covers four years, and students are required to complete the work of each year in regular order, passing an examination at the close of each year in the studies of that year.

FIRST YEAR

Chemistry, Physics, Biology I, Comparative Anatomy I, II, Human Anatomy.

SECOND YEAR

Systematic Anatomy, Physiology, Medical Chemistry, Bacteriology, Histology.

THIRD YEAR

Regional Anatomy, Physiology, Pathology, Materia Medica, Obstetrics, Surgery.

FOURTH YEAR.

Therapeutics, Surgery, Practice, Obstetrics, Gynecology, Mental Diseases, Medical Jurisprudence, Hygiene, Ophthalmology, Laryngology, Otology.

SCHEDULE, 1899-1900

FIRST YEAR

Hour.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
9 A.M.	Dissection.	Human Anatomy.	Dissection.	Human Anatomy.	Dissection.	Human Anatomy.
10 A.M.	Chemistry.	Physics.	Chemistry.	Physics.	Chemistry.	Physics.
2 P.M.	Biology, or Comparative Anatomy.	Biology, or Comparative Anatomy.		Biology, or Comparative Anatomy.	Biology, or Comparative Anatomy.	
3 P.M.	Biology, or Comparative Anatomy.	Biology, or Comparative Anatomy.		Biology, or Comparative Anatomy.	Biology, or Comparative Anatomy.	

SECOND YEAR

Hour.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.*	SATURDAY.
8 A.M.	Physiology.	Histology B, or Bacteriology B, Dissection A.	Physiology.	Histology B, or Bacteriology B, Dissection A.	Physiology.	Dissection A, B.
9 A.M.	1 Histology A, or Bacteriology A, Dissection B.	Histology B, or Bacteriology B, Dissection A.	Histology A, or Bacteriology A, Dissection B.	Histology B, or Bacteriology B, Dissection A.	Dissection A, B.	Dissection A, B.
10 A.M.	Histology A, or Bacteriology A, Dissection B.	Anatomy.	Histology A, or Bacteriology A, Dissection B.	Anatomy.	Dissection A, B.	Anatomy.
11 A.M.	Dissection B.	Dissection A.	Dissection B.	Dissection A.	Dissection A, B.	Dissection A, B.
2 P.M.	Chemistry.	Chemistry.	Dissection A, B.	Chemistry.	Chemistry.	
3 P.M.	Chemistry.	Chemistry.	Dissection A, B.	Chemistry.	Chemistry.	

* 1 The course in Histology covers about two-thirds of the year. A course in Bacteriology at the same hour covers the rest of the year.

THIRD YEAR

Hour.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
8 A.M.		Physiology.		Physiology.		Physiology.
9 A.M.	Therapeutics.	Surgery.	Therapeutics.	Surgery.	Gynecology.	Surgery.
10 A.M.	Anatomy.	Dissection A, B.	Anatomy.	Pathology C; Dissection A, B.	Anatomy.	Pathology C; Dissection A, B.
11 A.M.	Obstetrics.	Dissection A, B.	Obstetrics.	Pathology C; Dissection A, B.		Pathology C; Dissection A, B.
2 P.M.	Pathology A; Dissection B, D.	Pathology B; Dissection A, D.	Dissection A, B, D.	Pathology A; Dissection B, D.	Pathology B; Dissection A, D.	
3 P.M.	Pathology A; Dissection B, D.	Pathology B; Dissection A, D.	Dissection A, B, D.	Pathology A; Dissection B, D.	Pathology B; Dissection A, D.	

FOURTH YEAR

Hour.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
8 A.M.	Practice.	Practice.	Practice.	Practice.	Practice.	Practice.
9 A.M.	Therapeutics.	Surgery.	Therapeutics.	Surgery.	Gynecology.	Surgery.
10 A.M.		Clinic.		Clinic.		Clinic.
11 A.M.	Obstetrics.	Clinic.	Obstetrics.	Clinic.		Clinic.

Fourth year men can have Bacteriology Wednesday P.M. during January and February.

Clinics at the Hospital, afternoons at 2 o'clock, and mornings, Tuesday, Thursday, and Saturday, at 10 and 11 o'clock.

HOSPITAL

The MARY HITCHCOCK MEMORIAL HOSPITAL has now been in use for six years, and affords increased facilities for clinical instruction. It is a cottage hospital of thirty-six beds, and is constructed after the most approved modern style for such buildings.

A large and well-lighted amphitheatre is provided for witnessing operations, which are performed by members of the Faculty before the class, during the entire session.

An appointment of an advanced medical student as House Officer for the Hospital is made once in six months. He serves for six months as externe and then for an equal period as resident interne. His term of service begins on March 1st or September 1st.

Besides the use of the special collections and apparatus of the Medical School, the students derive incidental advantages from the other departments of the College. Medical students have access to the College library, including a medical library, on the same terms with other students.

REQUIREMENTS FOR ADMISSION

Applicants for admission to this School must have graduated from a registered College, or satisfactorily completed a full course in a registered Academy or High School; or have had a preliminary education considered and accepted as fully equivalent, and upon bringing evidence of such preparation and graduation will be received on certificate; those who wish to enter by examination should prepare themselves in the following subjects: English, History (two of the four parts, *a*, *b*, *c*, or *d*), Mathematics, Latin, and one of the Sciences, Chemistry, Physics, Zoölogy, or Botany, according to specifications given below.

SUBJECTS WITH SPECIFICATIONS

ENGLISH —

Two sets of books are prescribed for preparation in English, one for reading, the other for more careful study. No candidate will be accepted in English whose work is notably deficient in point of spelling, punctuation, idiom, or division into paragraphs. The requirement consists of two parts.

I. Reading—A certain number of books will be set for reading. The candidate will be required to present evidence of a general knowledge of the subject-matter, and be able to answer simple questions on the lives of the authors; he must also show the ability to write a paragraph or two on each of several topics, to be chosen by the candidate from a considerable number—perhaps ten or fifteen—set before him. The treatment of these topics is designed to test the candidate's power of clear and accurate expression, and will call for only a general knowledge of the substance of the books. In place of a part or the whole of this test, the candidate may be allowed to present an exercise book, properly certified by his instructor, containing compositions or other written work done in connection with the reading of the books.

The books set for this part of the examination will be:

In 1900, Dryden's *Palamon and Arcite*; Pope's *Iliad*, Books i, vi, xxii, xxiv; The Sir Roger de Coverley Papers in *The Spectator*; Goldsmith's *The Vicar of Wakefield*; De Quincey's *The Flight of a Tartar Tribe*; Tennyson's *The Princess*; Scott's *Ivanhoe*; Cooper's *The Last of the Mohicans*.

In 1901, 1902, Shakespeare's *The Merchant of Venice*; Pope's *Iliad*, Books i, vi, xxii, xxiv; The Sir Roger de Coverley Papers in *The Spectator*; Goldsmith's *The Vicar of Wakefield*; Coleridge's *The Ancient Mariner*; Scott's *Ivanhoe*; Cooper's *The Last of the Mohicans*; Tennyson's *The Princess*; Lowell's *The Vision of Sir Launfal*; George Eliot's *Silas Marner*.

II. Study and Practice—This part of the requirement presupposes the thorough study of each of the works named below. The test will be upon subject-matter, form, and structure.

The books set for this part will be:

In 1900, Shakespeare's *Macbeth*; Milton's *Paradise Lost*, Books i and ii; Burke's *Speech on Conciliation with America*; Macaulay's *Essays on Milton and Addison*.

In 1901, 1902.—Shakespeare's *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso*; Burke's *Speech on Conciliation with America*; Macaulay's *Essays on Milton and Addison*.

HISTORY (including Historical Geography) —

- (a) The History of Greece to the death of Alexander, with due reference to Greek life, literature, and art.
- (b) The History of Rome to the accession of Commodus, with due reference to literature and government.
- (c) English History, with due reference to social and political development.
- (d) American History, with the elements of Civil Government.

A candidate may elect any two of the four divisions in History (*a*, *b*, *c*, or *d*).

(a) *Greek History* —

Oman's or Myers' History of Greece.

(b) *Roman History* —

Allen's Short History of the Roman People, and 300 pages additional reading.

(c) *English History* —

either Higginson and Channing's English History for Americans, *or* Montgomery's Leading Facts of English History, *or* Gardiner's English History for Schools, each with at least 300 pages additional reading, which may be selected from the following list: Creighton's Age of Elizabeth, Guest's Lectures on English History, Gardiner's Puritan Revolution, Freeman's Short History of the Norman Conquest, Green's Short History of the English People, Ch. i and Ch. vi, Sections iii-vii, Mrs. J. R. Green's Henry II, Macaulay's History of England, Ch. iii.

(d) *American History* —

either (1) Channing's Students' History of the United States or Johnston's History of the United States for Schools, each with 200 pages additional reading;
or (2) Higginson's Young Folks' History of the United States, through Ch. xvi, and *either* Channing's United States, 1765-1865, *or* Johnston, from beginning of Period V;
or (3) Higginson; Lodge's English Colonies, Ch. ii and xxii; Morse's John Quincy Adams, Ch. ii and iii; Josiah Quincy's Figures of the Past.

MATHEMATICS —

Algebra — The fundamental operations, simple equations with applications to problems involving two or more unknown quantities, the principles of factoring, involution and evolution applied to expressions containing fractional and negative exponents, radicals, including imaginaries and radical equations, quadratic equations, with applications to problems involving two unknown quantities.

Plane Geometry — With the use of the metric system in the construction and solution of numerical problems based on the principal theorems.

LATIN —

The ability to translate at sight easy Latin prose.

The Latin book edited by Crothers and Bice for medical students, or something equivalent, is recommended for preparation for this examination.

CHEMISTRY —

Acquaintance by laboratory work with elementary processes and with the properties of substances common in chemistry; familiarity with the chemical notation in its experimental and arithmetical meaning, including the ability to solve simple problems based on the relations expressed by formulas and equations; understanding and ability to use correctly the ordinary terms of Descriptive Chemistry. Bartlett's Laboratory Exercises, Parts i-v (exclusive of Class i, Part ii), or equivalent. A certified notebook of laboratory work must be presented. The student should have had in addition recitations based upon any good elementary descriptive text-book through the non-metallic and metallic elements.

To meet the above requirement, at least 110 hours of elementary chemistry are necessary, one-half laboratory work, illustrating the preparation and the properties of the substances ordinarily treated in elementary chemistry. Qualitative Analysis will not be accepted as an equivalent for the laboratory work prescribed.

PHYSICS —

1. Gage's Elements of Physics, or Avery's Elements of Natural Philosophy, or an equivalent.

II. A course of experiments, not less than forty in number, in Dynamics of Solids, Liquids, and Gases. The student must present his original note-book, with the record of his experiments certified by his instructor.

To meet the above requirement at least three exercises a week throughout the school year are necessary.

ZOOLOGY —

The equivalent of fifty one-hour exercises, consisting mainly of laboratory work in the study of the structure and life-histories of representative animals.

The candidate will be required to present a certified note-book, containing complete records of the conditions under which his observations were made, as well as the observations themselves; also sketches of all the animals, or their organs, that have been studied.

No work necessitating the use of a compound microscope is required.

Needham's Elementary Lessons in Zoölogy.

BOTANY —

The equivalent of fifty one-hour exercises in systematic Botany of flowering plants. The candidate will be required to present an herbarium, certified to be the product of his own work, of fifty species, carefully dried, mounted, and labelled.

Gray's Lessons in Botany (revised edition), first 125 pages, or Bergen's Elements of Botany, first 218 pages, with Gray's Manual of Botany (sixth edition) for system of classification.

A certified note-book must be presented with the herbarium, containing descriptions of twenty-five species of plants. For a good form to follow in the description, see "How to Describe a Flowering Plant," by F. L. Sargent, a small pamphlet that may be obtained from the Cambridge (Mass.) Botanical Supply Company.

The Examinations for admission to the First, or entering Class will be held in the English Room, (E.) Culver Hall, as follows: —

On Monday, September 10, at 3 P.M., in the Sciences.

On Tuesday, September 11, at 9 A.M., in History.

On Tuesday, September 11, at 3 P.M., in Mathematics.

On Wednesday, September 12, at 9 A.M., in Latin.

On Wednesday, September 12, at 3 P.M., in English.

ADMISSION TO THE SECOND CLASS

Students may be admitted without examination to the Second Class who present satisfactory evidence of having passed the examinations of the first year in an accredited Medical School.

ADMISSION TO THE THIRD CLASS

Candidates for admission to the Third Class must pass on July 12, 13, and 14, 1900, the examination in Human Anatomy, Physiology, Inorganic and Medical Chemistry, Histology, and Bacteriology already taken by that class.

Such candidates should be in town July 11.

ADMISSION TO THE FOURTH CLASS

Candidates for admission to the Fourth Class must pass on July 12, 13, and 14, 1900, the examinations in Human Anatomy, Physiology, Inorganic and Medical Chemistry, Histology, Bacteriology, Materia Medica, and Pathology already taken by that class.

Such candidates should be in town July 11.

Students in the Academic department of Dartmouth College, who, at the beginning of their Senior year, matriculate in the Medical Department, are allowed to take examinations during Senior year in the work of the first year of the Medical Department, provided they have taken during their academic course the subjects required in the first year of the medical course.

They will thus be able to earn the two degrees in seven years.

Students desiring to pass from the Academic to the Medical department of the College must bring the certificate of the President of the College, with his approval of such transfer.

EXAMINATIONS AND GRADUATION

During the first year of the study of medicine in this school examinations *will be required* in Physics, General Biology, Comparative Anatomy, Chemistry, and Human Anatomy.

At the end of two full years of the study of medicine and two courses of lectures, an examination *will be required* in Systematic Anatomy, Physiology, Medical Chemistry, Histology, and Bacteriology. At the end of three full years of the study of medicine and three courses of lectures, an examination *will be required* in Systematic and Regional Anatomy, Physiology, Materia Medica, and Pathology. The examinations thus taken, if satisfactory, shall stand as final.

The fee for the second examination is five dollars; for the third examination, ten dollars. These sums will be deducted from the examination fee at the final examination.

Certificates of examinations passed at other Colleges are not accepted in place of our own examinations for a degree, except as stated under Requirements for Admission.

Every candidate for the degree of Doctor of Medicine must (1) be more than twenty-one years of age; (2) be of good moral character; (3) have graduated from a registered College or satisfactorily completed a full course in a registered academy or high school; or have had a preliminary education considered and accepted as fully equivalent; (4) have studied medicine (unless matriculated before January 1, 1898), not less than four full school years of at least nine months each, including four satisfactory courses of at least six months each, in four different calendar years, in a medical college registered as maintaining at the time, a satisfactory standard; (5) present evidence that he has dissected all parts of the cadaver; (6) pass a satisfactory written examination in Anatomy, Physiology, Chemistry, Histology, Bacteriology, Pathology, Therapeutics, Surgery, Obstetrics, Materia Medica, Gynecology, and Practice.

Final (oral) examinations before Delegates from the New Hampshire and Vermont Medical Societies will be held on the last Monday of February, 1901.

EXPENSES

All fees must be paid in full at the opening of the session.

LECTURES — Matriculation (paid annually)	. . .	\$5.00
For the first Course	. . .	100.00
For the other three Courses, each	. .	110.00
Examination Fee (not returnable)	. . .	25.00
Chemicals and ordinary breakage, First year	. . .	5.00
“ “ “ “ Second year	. .	3.00
Bacteriological, Histological, and Pathological Material	.	3.00
Anatomical material	. . . . .	at cost

SCHOLARSHIPS

By the gift of one thousand dollars, Mrs. Mary H. Chamberlain of Princeton, New Jersey, has established, in memory of her husband, the William M. Chamberlain scholarship in Dartmouth Medical School. The income of the above-named sum is annually to be loaned to such worthy and indigent medical students as may need its aid toward payment of lecture fees. The loan is to be for four years, without interest. A few other scholarships are available on like terms.

TEXT-BOOKS

ANATOMY — Gray, Quain, Treves, Morris.

HISTOLOGY — Piersol, Stöhr, Schäfer.

BACTERIOLOGY — Sternberg.

PHYSIOLOGY — First Year, Martin's Human Body; Second Year, Kirkes (Blakiston's Edition). For reference, Foster, Stewart's Manual, American Text-book of Physiology.

CHEMISTRY — Bartlett's Laboratory Exercises, Bartley's Medical, Tyson's or Purdy's Urinary Analysis.

THERAPEUTICS — Balliet's Notes, Field's Cathartics and Emetics, Bruce, Wood, Bartholow.

PRACTICE OF MEDICINE — Osler, Tyson, Wood and Fitz, Medical Diagnosis, Loomis.

PATHOLOGY AND PATHOLOGICAL ANATOMY — Green, Ziegler, Coplin.

SURGERY — American Text-book of Surgery, Moullin, Park, Walsham, Warren, Gerster.

OBSTETRICS — Hirst, Lusk, Parvin, Playfair.

LARYNGOLOGY — Browne's Diseases of the Throat; Barr, Diseases of the Ear; McBride, Diseases of the Throat, Nose, and Ear; Bishop, Diseases of the Ear, Nose, and Throat.

DISEASES OF CHILDREN — Holt, Vogel, Rotch.

DISEASES OF WOMEN — Thomas and Mundé, Dudley.

MEDICAL JURISPRUDENCE — Taylor.

DICTIONARY — Gould, Duane.

☞ Those desiring further information may address PROFESSOR GILMAN D. FROST, M.D., Secretary, Hanover, N. H.

ALUMNI ASSOCIATIONS



ALUMNI ASSOCIATIONS

THE GENERAL ASSOCIATION

FOUNDED IN 1854

President, HENRY M. BAKER, '63.

Vice-Presidents, { JOHN R. EASTMAN, '62.
FRANK N. PARSONS, '74.

Secretary, FRANK A. SHERMAN, '70, Hanover, N. H.

Statistical Secretary, JOHN M. COMSTOCK, '77, Chelsea, Vt.

Treasurer, PERLEY R. BUGBEE, '90, Hanover, N. H.

Executive Committee :

JOHN L. HILDRETH, '64 (*Chairman*). GEORGE H. M. ROWE, '64.

WILDER L. BURNAP, '63. HOWARD F. HILL, '67.

ISAAC F. PAUL, '78 (*Secretary*). T. W. D. WORTHEN, '72.

VICTOR I. SPEAR, '74.

Committee on Alumni Trustees :

SANFORD H. STEELE, '70 (*Chairman*). JOHN P. GEORGE, '78.

JOSEPH A. DEBOER, '84. JAMES A. WELLMAN, '89.

THOMAS W. PROCTOR, '79.

The membership includes all graduates of the College, the Thayer School of Civil Engineering, and the Chandler School of Science and the Arts. Others who receive from the College an Honorary Degree, or are elected at an Annual Meeting, shall be honorary members, but without the right of voting.

The Annual Meeting is held in the old chapel in Dartmouth Hall on Tuesday afternoon of Commencement week. The Alumni Dinner occurs on Wednesday, Commencement Day.

☞ The attention of the Alumni is called to the fact that the Commencement exercises occur on Wednesday instead of Thursday.

By an arrangement with the Trustees of the College, five of their number are elected to their office upon the nomination by ballot of all Alumni of the College of three years' standing, one vacancy occurring in the Board at each Commencement.

Ballot forms, containing the names of five candidates who have been selected by the Nominating Committee for the vacancy, are sent to all Alumni two months before Commencement, and the voting closes at 6 P.M. on Tuesday evening of Commencement week.

LOCAL ASSOCIATIONS

BOSTON ASSOCIATION, FOUNDED IN 1864

President, CHARLES W. BARTLETT, '69.

Secretary, GUY W. COX, '93, 73 Tremont St.

Annual Reunion, third Wednesday in January.

NEW YORK ASSOCIATION, FOUNDED IN 1866

President, WILLIAM N. COHEN, '79.

Secretary, JORDAN J. ROLLINS, '92, 32 Nassau St.

Annual Reunion, last Friday in January.

CINCINNATI ASSOCIATION, FOUNDED IN 1875

President, PARKER DICKSON, '74.

Secretary, ALBERT H. MORRILL, '97, College Building.

Annual Reunion in January.

WASHINGTON ASSOCIATION, FOUNDED IN 1876

President, HENRY M. BAKER, '63.

Secretary, WILLIAM M. HATCH, '86, Room 209, Patent Office.

Annual Reunion in January.

CHICAGO ASSOCIATION, FOUNDED IN 1876

President, CHARLES R. WEBSTER, '82.

Secretary, WALTER E. MCCORNACK, '97, 100 Washington St.

Annual Reunion in January.

NORTHWEST ASSOCIATION, FOUNDED IN 1880

President, LYNDON A. SMITH, '80.

Secretary, CHARLES L. SAWYER, '88, 827 15th Ave., Minneapolis, Minn.

Annual Reunion at Minneapolis in January.

PACIFIC COAST ASSOCIATION, FOUNDED IN 1881

President, THOMAS FLINT, JR., '80.*Secretary*, THOMAS A. PERKINS, '90, Mills Building, San Francisco, Cal.

Annual Reunion, second Thursday in April.

MANCHESTER (N. H.) ASSOCIATION, FOUNDED IN 1881

President, ELIJAH M. TOPLIFF, '52.*Secretary*, ARTHUR H. HALE, '86.

Annual Reunion, second Tuesday in January.

CONCORD (N. H.) ASSOCIATION, FOUNDED IN 1891

President, CLAUDIUS B. WEBSTER, M.D., '36.*Secretary*, GEORGE H. MOSES, '90.

Annual Reunion last Wednesday in January.

CENTRAL AND WESTERN MASSACHUSETTS ASSOCIATION, FOUNDED
IN 1892*President*, FRANK P. GOULDING, '63.*Secretary*, ELMER C. POTTER, '92, 340 Main St., Worcester.

Annual Reunion at Worcester or at Springfield in February.

VERMONT ASSOCIATION, FOUNDED IN 1893

President, WILDER L. BURNAP, '63.*Secretary*, FRED A. HOWLAND, '87, Montpelier.

Annual Reunion at Montpelier in October.

SOUTHEASTERN NEW HAMPSHIRE ASSOCIATION, FOUNDED IN 1893

President, LEVI G. HILL, M.D., '38. (Deceased.)*Secretary*, CHARLES A. FAIRBANKS, M.D., '71, Dover.

Annual Reunion at Dover in February.

"THE GREAT DIVIDE" ASSOCIATION, FOUNDED IN 1895

President, WILLIAM B. TEBBETTS, '75.*Secretary*, FRANK E. GOVE, '88, Denver, Colo.

Annual Reunion at Denver second Tuesday in January.

DETROIT ASSOCIATION, FOUNDED IN 1895

President, SULLIVAN M. CUTCHEON, '56.

Secretary, WILLIAM S. SAYRES, '76, 602 Congress St., East.

ROCKY MOUNTAIN ASSOCIATION, FOUNDED IN 1895

President, CLINTON H. MOORE, '74.

Secretary, ARTHUR G. LOMBARD, '79, Helena, Mont.

"OF THE PLAIN" ASSOCIATION, FOUNDED IN 1898

President, HENRY E. LEWIS, '72.

Secretary, J. IRVING READ, '94, 2215 Binney St., Omaha, Neb.

MEDICAL SCHOOL ASSOCIATION, FOUNDED IN 1886

President, GEORGE COOK, M.D., '69.

Secretary, WILLIAM T. SMITH, M.D., '79, Hanover, N. H.

Annual Reunion at Concord, N. H., at the time of the meeting of the New Hampshire Medical Society, about June first.

THE DARTMOUTH CLUB OF BOSTON, FOUNDED IN 1890

President, SAMUEL L. POWERS, '74.

Secretary, FRANK E. BARNARD, '91, 244 Washington St.

Monthly meetings and dinners are held each month during the year, excepting January, July, August, and September. They are held alternately at the University Club, 270 Beacon Street, on the evening of the second Friday of the month, and at the Exchange Club, corner of Milk and Batterymarch Streets, on the afternoon of the second Saturday of the month. The Annual Meeting is that held in December.

THE DARTMOUTH CLUB OF THE CITY OF NEW YORK,
FOUNDED IN 1899

President, CHARLES F. MATHEWSON, '82.

Secretary, HAROLD H. GIBSON, '97, 153 Fifth Ave.

Regular meetings and dinners are held on the first Friday of March, June, October, and December. The Annual Meeting is that held in December. The place of meeting is alternately at a down-town and an up-town hotel or club.

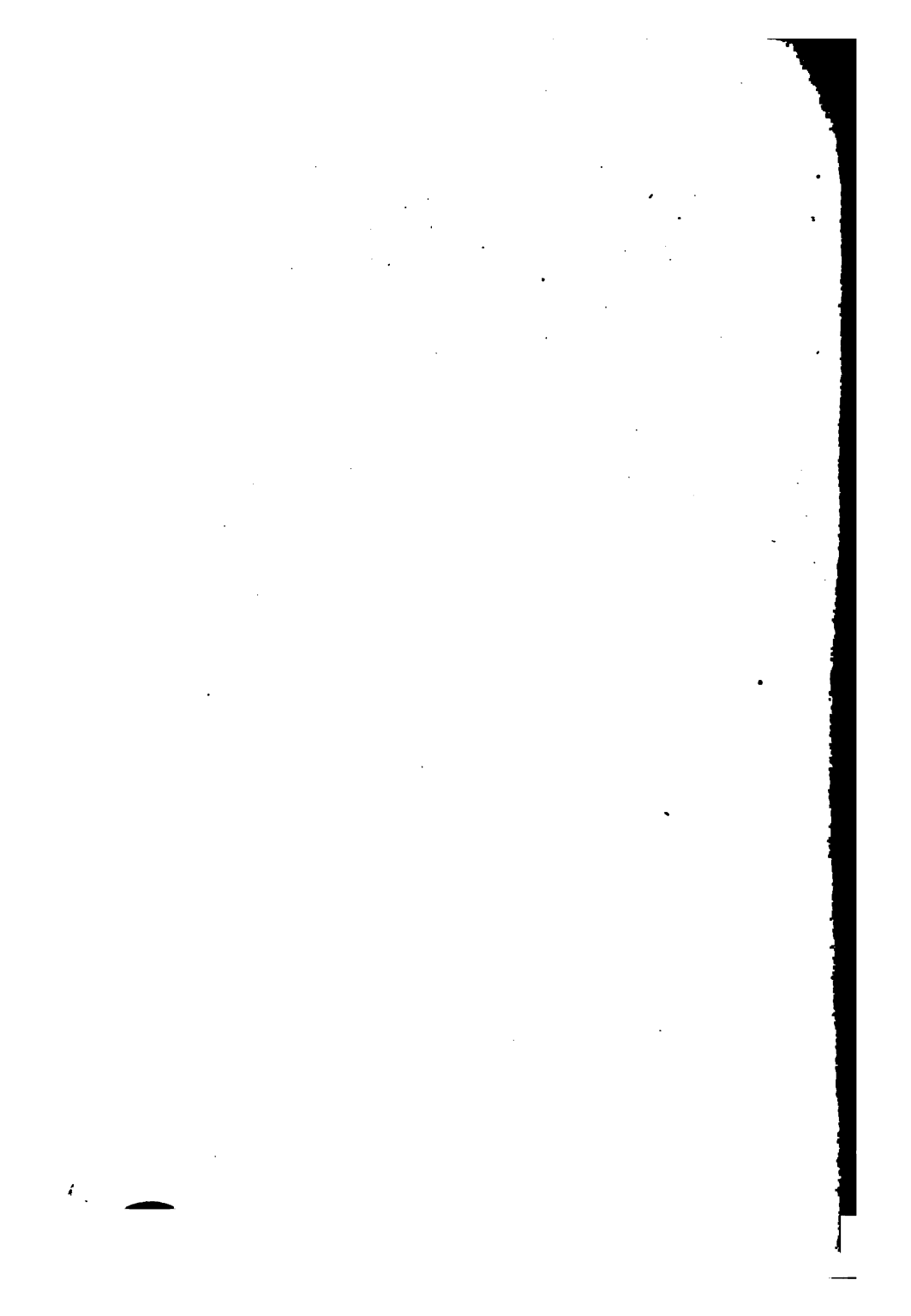
PUBLICATIONS

All graduates are hereby earnestly requested to forward their publications to the College Librarian for preservation in the Alumni alcove.

The Annual Catalogue, usually issued in December, will be sent to each Alumnus whose correct address is known.

An Obituary Record is published annually at Commencement and will be sent to each Alumnus with the Annual Catalogue in December.

A new General Catalogue, much enlarged, with historic notes and views of buildings, old and new, will be issued the last of June. This General Catalogue will be sent to any address on the receipt of \$1.00 for paper cover, or for \$1.50 bound in cloth. The order may be sent to Professor M. D. Bisbee, Librarian, or to Professor C. F. Emerson, Dean, Hanover, N. H.



UNIV. OF MICH.
JAN 11 1902

FOUNDED



1769

DARTMOUTH
COLLEGE
CATALOGUE

1899-1900

the 1990s, the number of people in the world who are undernourished has increased from 600 million to 800 million. The number of people who are malnourished has increased from 1.1 billion to 1.5 billion. The number of people who are obese has increased from 100 million to 300 million.

There is a growing awareness of the need to address the problem of malnutrition. The World Health Organization (WHO) has launched a global strategy to reduce malnutrition. The strategy is based on the following principles: (1) malnutrition is a global problem; (2) malnutrition is a preventable problem; (3) malnutrition is a problem that can be solved by a combination of government and non-governmental organizations; (4) malnutrition is a problem that can be solved by a combination of short-term and long-term measures; (5) malnutrition is a problem that can be solved by a combination of individual and community measures.

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